



**Towson State University
Graduate School Bulletin
1981-1982**

The student is responsible for complying with the provisions and requirements as they are written in this publication. However, the provisions of this publication are not to be regarded as an irrevocable contract between the student and Towson State University. The University reserves the right to change any provision or requirement at any time within the student's term of residence, or to add or withdraw course offerings.

ACCREDITATION

Towson State University is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The University is a member of the American Council on Education, the Council of Graduate Schools in the United States, and the Northeastern Association of Graduate Schools. It is approved by the American Association of University Women.

TOWSON STATE UNIVERSITY BULLETIN

ACADEMIC CALENDAR 1981-1982

1981 FALL SEMESTER

Aug.	18	Tues.	Registration in University Union (in person).
	19	Wed.	See Registration Time Schedule in Fall Evening Schedule.
Aug.	27	Thurs.	Classes begin.
Oct.	1	Thurs.	Final date to apply for advancement to degree candidacy and comprehensive examinations. Final date to submit diploma card for December graduation.
Nov.	7	Sat.	Comprehensive examination. Most advancement to degree candidacy examinations will be administered on this date.

1982 SPRING SEMESTER

Jan.	20	Wed.	Registration in University Union (in person).
	21	Thurs.	See registration time schedule in Spring evening Schedule.
Feb.	4	Thurs.	Classes begin.
	15	Mon.	Final date to apply for advancement to degree candidacy and comprehensive examinations. Final date to submit diploma card for June graduation.
Apr.	3	Sat.	Comprehensive examination. Most advancement to degree candidacy examinations will be administered on this date.
	8	Thurs.	Spring vacation begins after last class.
	19	Mon.	Classes resume
June	1	Tues.	Final date to apply for advancement to degree candidacy and comprehensive examinations. Final date to submit diploma card for Sept. graduation.
	5	Sat.	Last day of classes.
	6	Sun.	Commencement.

1982 SUMMER SESSIONS

June	7	Mon.	First session day classes begin.
	21	Mon.	Evening classes begin.
July	10	Sat.	Comprehensive examination. Most advancement to degree candidacy examinations will be administered on this date.
	12	Mon.	Second session day classes begin.



Towson State University

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**TOWSON STATE UNIVERSITY
Towson, Maryland 21204**

THE UNIVERSITY

HISTORY

The history of Towson State University, the oldest and largest of Maryland's public colleges and universities, began in 1865, when the General Assembly of Maryland established a statewide public school system. The first state teacher training institution was the Maryland State Normal School, which in 1935 became the State Teachers College at Towson. Formally opened in Baltimore on January 15, 1866, the Normal School was for many years the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland. The school occupied three different locations in the city of Baltimore before moving to its present suburban location in 1915.

In 1946 the arts and sciences program was introduced at Towson. Beginning as a two-year transfer program, it was extended to a four-year, degree-granting program in 1960.

In 1963 the college was authorized by action of the legislature to expand its offerings in the arts and sciences while maintaining a strong program in teacher education, and to change its name from State Teacher's College at Towson to Towson State College. In 1976 legislative authorization enabled the institution to become Towson State University.

ACCREDITATION

Towson State University is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The College is a member of the American Council on Education and is approved by the American Association of University Women.

PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson State University is in compliance with Section 513 (Protection of the rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V—Education Administration of the Education Amendments of 1974.

NON—DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson State University is in compliance with Titles VI and VII of the Civil Rights Act of 1964, the Equal Pay Act of 1963, Title IX of the Education Amendments of 1972, Titles VII and VIII of the Public Health Service Act, Section 504 of the Rehabilitation Act of 1973, Section 303 of the Age Discrimination Act of 1975, Executive Order 11246/11375 and Article 64A (The Governor's Code of Fair Practices). In accordance with these laws, the university does not discriminate against any individual for reasons of race, color, religion, national origin, sex, age, political affiliation, marital status, or condition of handicap in the admission of students, educational programs and activities, hiring of faculty and staff, or any terms and conditions of employment. The university is also in compliance with federal regulations regarding prohibition of discrimination on the basis of veteran status. Information on these laws and copies of the Affirmative Action Plan of Towson State University are available from the Affirmative Action Officer.

BOARD OF TRUSTEES

The university is governed by an eleven-member board of trustees—ten members appointed by the Governor for nine-year terms— and one student member appointed by the Governor for a one-year term. The board also governs the five other state colleges and universities.

The Commission for the Expansion of Public Higher Education in Maryland recommended that the board be created to replace the state board of education as the university's controlling agency. The General Assembly did so in 1963.

THE CAMPUS AND FACILITIES

The university is situated on a campus of over 324 acres located one and a half miles beyond the northern border of the city of Baltimore. Within an eight-mile radius of the campus are all the cultural advantages of the city of Baltimore—The Peabody Conservatory of Music and Library, the Enoch Pratt Free Library, the Walters Art Gallery, the Baltimore Museum of Art, and the many theaters and other cultural centers necessary for a well-rounded university experience.

Campus buildings and facilities give excellent support to the various university programs. The following are of particular interest to graduate students:

1. Stephens Hall, one of the original campus buildings, houses the departments of mathematics and business administration. This building, with its clock tower, has become a landmark in the Baltimore area.
2. The Albert S. Cook Library has well-developed holdings in the arts and sciences and teacher education. Towson's long history of teacher education is reflected in the extensive collections of bound volumes, reference works and periodicals in the field, as well as substantial holdings on microfilm and microcard. The collections of curriculum materials, textbooks, trade books and audiovisuals aids are particularly noteworthy.
3. Van Bokkelen Hall is a newly renovated building for the departments of communication sciences and disorders and speech and mass communications. The Speech-Language Pathology and Audiology Clinic is located in this building.
4. Lida Lee Tall Learning Resources Center facilitates field studies of children from nursery school through grade six.
5. Glen Esk, formerly the president's home, is now occupied by counseling and psychological services.
6. Smith Hall was first occupied in the fall of 1965. Included in the building are biology, chemistry, physics and science education offices, classrooms, laboratories and special function rooms such as student and faculty work and preparation areas. The Watson-King Planetarium is on the top floor. A large addition to the building was completed in 1976.
7. Linthicum Hall, completed in 1967, is a major classroom building in which many faculty offices are also located.
8. Burdick Hall, the health and physical education building, was completed in 1968; it houses three gymnasiums, an Olympic-size swimming pool, classrooms, and various training and dressing rooms.
9. The General Services Building, opened in spring 1970, contains offices and shops for the physical plant department, the university police headquarters, and Central Stores and Receiving.
10. The University Union, a three-story building opened in the fall of 1971, provides cultural and recreational activities for the entire campus. Located in this building are the post office, book store, box office, dining areas for private and banquet size groups, bowling alleys and a billiard room.

11. The Administration Building, a three story structure at the corner of Osler Drive and Towsontowne Boulevard, opened in 1972. It contains the principal administration offices. The Graduate School offices are located on the main level, west end.
12. Lecture Hall is part of the three-building complex that contains Hawkins Hall and the Psychology Building. It is equipped with broad space, a large electronic screen, and adjacent seminar rooms. Television cameras are connected with Hawkins Hall and the Psychology Building.
13. Fine Arts Building, a \$6.5-million building opened in 1973, houses the departments of art, music, and theatre arts, as well as a main stage theatre, a studio theatre, concert hall, the Holtzman Art Gallery and the Roberts Room, which displays the university's extensive Asian Arts Collection.
14. Hawkins Hall, part of a three-building complex, houses the elementary, secondary and early childhood education departments. Named for the former president, Earle T. Hawkins, the building is equipped with large, attractive classrooms which can be sectioned into several smaller rooms. Installed television monitors are capable of picking up ongoing activities in Lida Lee Tall. Also included in the wing are a reading center, testing modules, and an independent production area with learning carrels.
15. Psychology Building is part of the three-building complex that contains Hawkins Hall. It houses the psychology department, and includes learning laboratories, animal laboratories, statistics laboratories and an auditorium with learning cubicles.

STUDENT SERVICES

Graduate students are welcome to use the facilities and services of the Student Personnel Program, and are invited to attend the many special events presented by the university.

UNIVERSITY UNION

The University Union is located near the Fine Arts Building and Burdick Hall. The University Union, in cooperation with the academic departments, provides a program of activities in which graduate students are encouraged to participate. These activities are publicized in the weekly calendar of activities, circulated to the departments and posted in the University Union.

The University Union is open Monday through Thursday evenings until midnight, on Fridays and Saturdays until 1 a.m., on Sundays from noon until 9 p.m. Included in the facility are eight bowling alleys, a T.V. lounge, a snack bar, a music listening room, 16 billiard tables, and showers and lockers for commuting students. The facility also includes the University Store, a large cafeteria, a meditation room, a central lounge, an art gallery and a special dining room. Facilities are available for all types of conferences and meetings. The food service area includes catering for any type of event from coffee and donuts to a gourmet dinner. Organizational offices and meeting spaces are included in the University Union. Graduate students are encouraged to use the facilities.

UNIVERSITY STORE

The University Store is located in the University Union. Textbooks, classroom supplies, phonograph records, gifts, magazines, as well as sundry personal items are stocked.

TICKET BOX OFFICE

The Ticket Box Office, located in the University Union, provides a discount ticket service for most of the local dinner theaters, movie theaters and other community activities. The office also handles all tickets for campus events. The manager's telephone number is 321-2244.

HEALTH CENTER

The Anita Dowell Health Center is located northeast of Linthicum Hall. It is open week days from 7 a.m. to 8 p.m. and thereafter for emergencies. It is open from 7 a.m. to 3 p.m. Saturdays and Sundays. First aid is administered and appropriate referrals are made. All accidents on campus should be reported to the Health Center immediately. A mental health services is available for students seeking psychiatric help.

GRADUATE ASSISTANTSHIPS AND FINANCIAL AID

The graduate school of Towson State University offers a limited number of graduate assistantships each year to qualified students recommended by the appropriate department. The stipends for the graduate assistantships are \$2,500 and \$3,000 plus remission of tuition fees. The graduate assistants are required to provide appropriate work for the academic department each week during the semesters in which assistantships are in effect. Application forms for assistantships may be obtained from the graduate office. Detailed information may be obtained by writing to the dean of the Graduate School.

Financial aid for state and federal programs is available to post-baccalaureate students. Information on the following programs may be obtained from the Financial Aid Office (301) 321-2061.

FEDERAL AID PROGRAMS

The National Direct Student Loan Program—NDSL (formerly National Defense Student Loan) makes loans available to graduate students who have proven financial need. Loans may be as high as \$2500 per year for graduate students depending on the school's available funds. There is no interest charge as long as the student continues in at least half-time status, but there is interest of 3% beginning nine months after the student graduates or discontinues attendance. Special education teachers and teachers teaching in economically and culturally deprived areas may receive up to 100% cancellation. Recipients of NDSL funds through the university are required to have an exit interview. During this brief meeting between a financial aid counselor and the borrower, provision of repayment and student privileges will be detailed.

The College Work-Study Program (CWS) makes jobs available to students with exceptional financial need. These jobs are usually assigned as part of the "Financial Aid Package." If at all possible, students are placed in positions related to their academic major or special interest. Student employees are paid every two weeks. Recipients are limited by their financial need in the amount they may earn.

To apply for the above federal aid programs, students must complete and mail the Financial Aid Form (FAF) to the College Scholarship Service with instructions that the information be sent to Towson State University. The FAF application fee is \$4.75 (subject to change) and may be obtained from the

Towson State University Financial Aid Office. In addition, a TSU Financial Aid Application (Form A) must be obtained and filed directly with the TSU Financial Aid Office. All forms (FAF and Form A) must be received in Towson's Financial Aid Office no later than April 1, 1982 for first consideration. Allow four to six weeks for processing of the FAF application by the College Scholarship Service in meeting the April 1 deadline. Applications received after April 1 are considered on a remaining funds basis only.

STATE LOAN PROGRAMS

The Guaranteed Loan Program as operated in most states provides up to \$5,000 per year for graduate students. The federal government pays the 7% interest for students while they are in college. Repayment of the loan begins nine months after completion or termination of study. Applications may be received from and must be processed by the Financial Aid Office before final arrangements for the loans are made with the bank or lending institution. Out-of-state students may obtain applications from their local banks or lending institution.

RESIDENCE ON AND OFF CAMPUS

There is no provision to house graduate students on campus. The director of residence provides listings of off-campus accommodations. Arrangements for conferences with the director should be made in advance by calling (301) 321-2516.

COUNSELING

The Counseling Center staff participates in student and faculty activities concerned with the mental health of the university community. Services of trained counselors are available to students in need of assistance in making personal, educational or career decisions. In a confidential and accepting climate, the student is afforded the opportunity to gain deeper insight into his needs and goals.

In addition to individual counseling, the center offers a program of group counseling, limited testing facilities, and extensive vocational and educational information.

PARKING

The operation and possession of motor vehicles in the Towson community and the use of campus parking facilities are privileges extended to university faculty, staff, and students. These privileges carry with them the obligation to observe all regulations.

The map on the cover of this bulletin designates the parking areas for faculty, staff, and students. Student parking permits cost from \$5 to \$6.50 (see Registration and Fees) and may be obtained when other registration fees are paid.

VETERANS AFFAIRS

The Office of Veterans Affairs (OVA) provides coordination between veteran/dependent students and the Baltimore Regional Office of the Veteran's Administration. The OVA establishes procedures and prepares forms and correspondence that enable eligible students to receive their educational benefits. Additionally, it monitors class attendance and evaluates academic progress to ensure that satisfactory progress of those receiving benefits is maintained. It also supervises the employment of VA work-study students.

Students taking courses at another institution concurrently with courses at Towson State may be certified for both institutions by the Towson OVA.

The normal period for processing an enrollment certification is six weeks. Certification is not automatic. The proper VA forms must be completed for each semester. It is the responsibility of the individual to apply for educational benefits at the OVA and to notify the OVA when entitlement to benefits changes, or when a change from a degree program or to the number of credits being pursued occurs.

The purpose of veterans benefits at Towson State University is to permit those eligible for the benefits to obtain degrees. It is imperative, therefore, that each veteran be either a degree candidate or in a VA-approved program.

Students may visit the OVA daily from 8:30 a.m.-4:30 p.m. without an appointment.



THE GRADUATE SCHOOL

DEVELOPMENT OF GRADUATE STUDIES

Graduate studies at Towson State University began in 1958 with the establishment of a master of education degree program in elementary education. This was initiated after two years of preliminary study and recommendations from teachers and school administrators.

Sixty-seven students were admitted to the degree program in the first session of 1958, and the number of students has increased to the more than 4,500 enrolled in May 1979. Towson State University offers thirteen programs leading to the master's degree. A number of other programs are in various stages of planning and approval. The programs presently offered and the dates of approval by the board of trustees are as follows:

Master of Arts

General Studies	1974
Geography and Environmental Planning	1970
Psychology	1974
Mass Communication	1981

Master of Education

Art Education	1965
Early Childhood Education	1968
Elementary Education	1958
Music Education	1969
Reading	1969
Secondary Education	1965

Master of Science

Biology	1970
Health Science	1976
Instructional Technology	1971
Speech-Language Pathology and Audiology	1972

GRADUATE STUDIES COMMITTEE

The graduate studies committee determines policy for all graduate programs. Matters of graduate curriculum and standards are also the responsibility of the committee. The membership is comprised of the dean of the graduate school, the chief academic officer, and two graduate coordinators appointed by the president, all of whom serve in ex-officio, non-voting capacities, and six members of the faculty appointed by the president of the university for overlapping terms of three years. The committee also includes two graduate student members appointed by the president of the university. The chairperson and secretary of the graduate studies committee are elected from the membership of the committee. Meetings are held monthly during the academic year and at other times when necessary.

GRADUATE SCHOOL COORDINATORS

One graduate school coordinator administers the master of arts and master of science degree programs; another administers the master of education degree program. Each graduate program is directed by a departmental coordinator appointed by the appropriate department.

A third graduate school coordinator is responsible for all graduate school liaison activities with local education agencies. This coordinator also administers graduate school programs in "off-campus" centers.

IN-SERVICE EDUCATION AND OFF-CAMPUS CENTERS

A Graduate School Coordinator is responsible for all Graduate School liaison efforts with local boards of education. This Coordinator also administers Graduate School programs in the several "off-campus" centers.

ADVISEMENT

Graduate student advisement is the responsibility of the dean and associate dean of the graduate school, departmental coordinators, and faculty members serving the graduate staff. Students are encouraged to seek an appointment with one of the advisory staff. All conferences with advisers should be arranged by appointment well in advance of registration dates.

GRADUATE SCHOOL OFFICE HOURS

The graduate school office is open each weekday (except for scheduled holidays) from 8:30 a.m. to 5:00 p.m. The office is also open Monday through Thursday evenings until 7:00 p.m. During registration, the office is open in the evening according to the registration schedule. Students may arrange for appointments with the graduate school staff at other hours. The graduate school telephone number is (301) 321-2500.

CORRESPONDENCE

All correspondence concerning graduate study should be addressed to:
Dean of the Graduate School
Towson State University, Towson, Maryland 21204

LIBRARY PRIVILEGES

Graduate students are issued university identification cards for borrowing privileges. Books and materials from other libraries in the area may be requested on inter-library loan.

LIBRARY HOURS

Mon.-Thurs.	8:00 a.m. to 10:00 p.m.
Fri.	8:00 a.m. to 5:00 p.m.
Sat.	9:00 a.m. to 5:00 p.m.
Sun.	1:00 p.m. to 9:00 p.m.

The Faculty Reserve room is open Sunday through Thursday until midnight.

SCHEDULING OF COURSES

All 500-level and 600-level courses are offered after 4:00 p.m. with the exception of courses in the experimental psychology area. Some experimental psychology courses are offered in the morning hours and the early afternoon.

ACADEMIC REGULATIONS GOVERNING GRADUATE AND POST BACCALAUREATE STUDY

ADMISSIONS

Admission to the graduate school at Towson State University is granted to all applicants whose academic and personal qualifications give promise of success in graduate study. The applicant must hold a baccalaureate degree from a regionally accredited college or university or one accredited by the Maryland State Department of Education.

All students seeking admission to a graduate degree program, or to take courses carrying graduate credit, must file an application for admission to graduate studies prior to first enrollment and have official transcripts of all college work sent to the graduate school. Transcripts must be sent directly from the institutions attended to the graduate office of Towson State University. Some programs require such additional admissions devices as letters of recommendation, the graduate record examination, aptitude and/or advanced tests and the Miller Analogies.

ADMISSION TO COURSES FOR GRADUATE CREDIT

An applicant for admission to courses for graduate credit must meet admission requirements in one of two ways: 1) by holding a master's degree or a doctorate from a regionally accredited college or university, or 2) by holding a bachelor's degree from a regionally accredited college or university with a grade average of 3.00 ("B") and satisfactory attainment on all additional admissions devices required by the program. At the option of the coordinator and the department graduate committee the grade average requirement may be satisfied by a 3.00 average in the most recent 60 credits on the applicant's baccalaureate record. The quality of graduate work taken beyond the bachelor's degree, either as post-baccalaureate (non-graduate credit) courses or graduate credit courses, will be evaluated as part of the undergraduate record.

Students denied admission because of a low academic average (2.00-2.29) may register for courses as non-degree students, and may take upper division and 500-level courses in order to raise the cumulative average to a 2.30. At that time the student may again apply for admission. Courses taken to raise the cumulative average cannot be applied to a degree program. A student with a cumulative average between 2.00 and 2.29 may also become eligible for conditional admission by attaining a score of 1,500 or higher on the aptitude portion of the graduate record examination.

All required application credentials (see general admissions policy) must be filed with the dean of the graduate school no later than July 15 for the fall semester, November 15 for the spring semester, and March 15 for the summer session to be considered for admission. Those admitted as graduate students may register for courses numbered 100-699, but will receive graduate credit only for graduate level courses numbered 300-699 completed with grades of "C" or higher. Some 300-level and 400-level courses do not carry graduate credit and are not listed in the Graduate Bulletin. In order to maintain the classification of graduate student, an acceptable academic record must be maintained even if the student is not in a degree program.

CONDITIONAL ADMISSION

Conditional admission may be granted to those students whose academic achievement falls short of the standards required for graduate student standing if one of the following requirements is met:

1. academic average in collegiate work-at least 2.30 in one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit"
2. academic average in collegiate work-at least 2.00 in one or more of the areas of the student's record listed above in "Admission to Courses for graduate credit," and a score of 1,500 or higher on the aptitude portion of the graduate record examination.

The conditional admission procedures of the graduate school are as follows:

1. Two or three courses (minimum of six semester hours) may be specified in each program for completion of the conditional admission. Each program is consistent in the utilization of either two or three courses.
2. Courses for conditional admission are specified by the coordinator and may be at the 300-500 levels.
3. Registration for 600-level courses is not be permitted until the student receives full admission.
4. Conditional admission courses must be completed with the grade of "A" or "B" within a period of one year and may not be repeated.

Students admitted conditionally are enrolled as non-graduate students.

NON-DEGREE STUDENTS

Students who do not meet the standards required for classification as graduate students are permitted to register with the classification of non-graduate student. Those students receiving non-graduate standing are eligible to take courses from the 100 through the 500 levels.

Students who believe they can meet the admission requirements for graduate student standing but who fail to file the required application credentials in advance must register as non-graduate for the semester. However, they will be considered for admission to graduate student standing if their application credentials are received by the graduate school before the end of the first quarter of the semester. If they are admitted to graduate student standing they will then be permitted to receive degree credit for satisfactory completion of any courses that have been taken for graduate credit, provided the courses are applicable to the degree program.

ADMISSION PRIOR TO RECEIVING

BACCALAUREATE DEGREE

Admission may be granted to seniors in their final semester whose required application credentials are incomplete because the baccalaureate degree has not yet been conferred. Evaluation will be made on the basis of undergraduate work through the first semester of the senior year. Standing granted in the pre-degree category can be made by the graduate program coordinator, enabling the student to begin work in courses carrying graduate credit immediately upon completion of the senior year. The applicants must have all application credentials completed during the first month after classes begin in the semester during which course work is begun. Admission standing is subject to cancellation or change if the admission credentials remain incomplete or do not meet the requirements for admission.

GRADUATE WORK BY SENIORS AT TOWSON STATE UNIVERSITY

Seniors in their last semester of work at Towson State University may register for a maximum of six credit hours in the graduate school if they meet the following requirements: 1) the graduate courses must be in excess of the credits required for the bachelor's degree; 2) a letter from the student to the dean of the graduate school requesting graduate student classification (which requires a 3.00 average), submitted in advance for specific graduate courses (by July 15 for the fall semester, November 15 for the spring semester, and March 15 for the summer session), must be approved by the dean and the appropriate graduate departmental coordinator; 3) all required application credentials must be submitted (see General Admissions Policy), and the student must be granted graduate student standing prior to initiation of further course work; 4) the courses may be transferred to the student's graduate record after the student has been advanced to degree candidacy in the degree program.

CANDIDATES FOR DEGREES AT OTHER INSTITUTIONS

Students who are candidates for an advanced degree at another college or university may enroll as a graduate student at Towson State University for occasional work. The student must present, at least two weeks before registration, a letter from the graduate dean of the home institution indicating that he/she is in good standing and that credit earned at Towson State University is acceptable toward his/her degree.

FOREIGN APPLICANTS

Admission should be sought at least six months prior to the date of anticipated enrollment. All required admission credentials must be received in the graduate office prior to evaluation for admission. Credentials required are:

1. an application for admission to graduate studies
2. official or certified true copies of all grade reports, diplomas, and academic records attesting to the completion of undergraduate work
3. a letter from the student stating plans for attending, and reasons for selecting, Towson State University
4. a financial summary stating amounts and sources of support for the proposed duration of study
5. acceptable scores on the Test of English as a Foreign Language (TOEFL) is required if English is not the first language. Information about the TOEFL may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08540.

CONTINUOUS ENROLLMENT

Each student is expected to register for courses on a regular basis.



ACADEMIC REGULATIONS

PROGRAM OF STUDY

A program of study should be planned with an advisor within the semester that the student is granted graduate student standing. A maximum of nine credits at the 300 and/or 400 level taken for graduate credit may be included in the program of study. Revision of the program of study may be accomplished only with the advisor's approval. The program must be planned prior to advancement to degree candidacy.

Courses taken prior to the planning of the program of study are subject to the approval of the appropriate graduate coordinator. Courses taken by an undergraduate student and courses taken by a post-baccalaureate student for undergraduate credit may not be repeated for graduate degree credit.

GRADING SYSTEM

The letter "A" designates work of superior quality; "B," work of good quality; "C," work of satisfactory quality; "D," work of less than satisfactory quality and not allowable for degree credit; "F," work of unsatisfactory quality for which no credit is given; "FX" is assigned when the student registers for a course and does not attend, or neglects to withdraw officially from the course by the published last date to drop the course.

A mark of "I" (incomplete because of illness or other reason beyond control of the student) at the end of a semester carries no credit. Unless such a course is satisfactorily completed by the last day of the next regular semester, the grade for the course becomes "F." It is the responsibility of the student to make arrangements to complete course requirements for removal of the "I."

In computation of grade point averages, the following quality point values are used:

A—4 quality points	C—2 quality points
B—3 quality points	D—1 quality point
	F, FX—0 quality points

Students may repeat a course once, whether acceptable credit has been earned or a mark of "F" or "FX" has been awarded. The grade of "W" (withdrawn) does not replace a previously awarded grade. When the course is repeated the student receives the credits for the course (counted once) and the higher of the two grades. Upon completion of the repeated course, a change of grade form must be submitted to the registrar by the student. The lower mark earned will not be retained on the student's permanent record.

TRANSFER CREDIT

The following regulations govern the transfer of credits from other regionally accredited colleges:

1. Required courses in a program must be completed at Towson State University.
2. A maximum of twelve transfer credits may be allowed for graduate work satisfactorily completed at the following institutions: Bowie State College, Coppin State College, Frostburg State College, Salisbury State College, Morgan State University, and the University of Baltimore.
3. A maximum of six transfer credits may be allowed for graduate work satisfactorily completed at accredited institutions other than those listed in 2.

4. A maximum of six credits may be allowed for work successfully completed in the formal educational experiences sponsored by State and local boards of education. (See "Credit for In-service Experiences.")
5. The total accumulation of transfer credits listed in 2, 3, and 4 above may not exceed twelve.
6. Application for transfer of courses taken prior to admission may be made after the student attains graduate student standing. Transfer of courses taken prior to admission may be allowed if the student is initially admitted to graduate student standing at Towson State University and if the courses were taken for graduate credit. Transfer of courses is not permitted if the student is admitted conditionally.
7. Transfer of credit after a student has been admitted to the graduate school at Towson State University may be permitted if the student applies in writing to the dean of graduate school for permission prior to taking a course. Approval will be granted if the course is approved for the student's program and if the course is not offered by Towson State University during the period of the student's attendance.
8. All transfer credits must be completed with a grade of "B" or higher, and must be achieved within the total span of seven years allowed for completion of the degree requirements.
9. Transfer credits will not be used in computing academic averages. The courses will appear on the Towson State University transcript with the title and credits earned, but without grades earned.

COURSE LOAD

A student who registers for nine graduate semester hours is considered a full-time student. One who takes fewer hours is designated a part-time student. The maximum load for full-time students is twelve semester hours.

ACADEMIC PROBATION

In order to remain in good standing, a candidate for the master's degree must maintain a 3.00 average in all courses (degree and non-degree) taken for graduate credit. If the cumulative average falls below 3.00, the student will be placed on probation. A student placed on academic probation while in one program may transfer to another program, but will enter that program on academic probacourses taken previously will not be included in the program of study, of the program coordinator, thus allowing the student to enter the new program in good standing.

A student on probation may be removed from probation by repeating the course or courses and restoring the average to 3.00, or by raising the average to a 3.00 by taking from 3 to 9 additional semester hours, or by a combination of the above. If a student has still failed to raise the cumulative average to 3.00 after 9 additional semester hours, he/she is then dropped from the program and additional repeats of courses will not restore him/her to good standing.

After a student has been academically dismissed from a degree program because of a low cumulative average, the student may apply to another degree program. No courses prior to and including the semester in which the students fell below a 3.0 average may be utilized toward a degree.

A student on probation will not be permitted to take the written advancement to degree candidacy examination or the comprehensive examination leading to any degree. Required courses in which the candidate earns a grade of "D" must be repeated, since the grade does not confer graduate credit.

ACADEMIC INTEGRITY

The graduate school of Towson State University expects all students to maintain a high standard of academic integrity. Inappropriate classroom conduct, cheating, and plagiarism may result in disciplinary action by the graduate studies committee.

Instructors are responsible for maintaining the academic integrity of courses and will initially handle problems of classroom conduct, cheating, and plagiarism in a discussion with the student. Any means unauthorized assistance in preparing materials which are submitted by the student as original work constitutes a violation with respect to academic integrity and should result in action being taken. The instructor may lower the student's grade or give a failing grade for the course. If the instructor decides that further action is warranted, he/she will notify the student that a formal charge will be made to the graduate studies committee. A written report of the incident will be filed with the committee.

The committee will review the facts of the case and make a decision regarding the status of the student in the graduate school. The committee will either absolve the student of the violation or impose a penalty. The penalty may be, but is not limited to, the following:

1. agreement that the lowered course grade is sufficient disciplinary action
2. mandatory suspension from taking courses for graduate credit for a designated period of time
3. dismissal from graduate school

TIME LIMITATION

All requirements for the master's degree are to be completed within a seven-year period. The scheduled time is determined from the date of the first course in the degree program at Towson State University, or the date of any course allowed transfer credit, whichever is earlier.

CHANGE FROM ONE DEGREE PROGRAM TO A DIFFERENT PROGRAM

Students in the graduate school at Towson State University may not be enrolled in two master's degree programs concurrently. A student may request a change of program at any time subject to the following:

1. the student must complete an action request form or write a letter to the dean of the graduate school requesting a change of programs
2. the standing granted in the original program is no longer in effect and the student is evaluated as are other applicants
3. the standing granted in one program does not guarantee similar standing in a second program
4. the student has the right to return to the first program without restrictions if he/she requests the return during the 60 days immediately following the request to change programs
5. the student may return to the original program after the 60 day period subject to admission policies in effect at the time the student reapplies.



DEGREE REQUIREMENTS

REQUIREMENTS FOR THE MASTER'S DEGREE

1. satisfactory completion of all undergraduate requirements listed as prerequisites for the degree
2. filing of a program of study with the dean of the graduate school
3. advancement to degree candidacy
4. at least one course taken after the semester in which the student has been advanced to degree candidacy
5. a 3.00 average in all graduate work at Towson State University
6. satisfactory completion of the comprehensive examination if required for the program in which the degree is sought
7. satisfactory completion of the thesis and thesis defense if the thesis option is selected
8. filing of the diploma card in the graduate school
9. payment of graduation fee

ADVANCEMENT TO DEGREE CANDIDACY

All students in programs leading to the master's degree must attain advancement to degree candidacy. An application for advancement to degree candidacy should be made after nine hours of graduate courses have been completed and prior to the completion of fifteen graduate hours. The following requirements govern eligibility for advancement to degree candidacy:

1. a minimum of six semester hours in 500-level and 600-level courses
2. a 3.00 average in all graduate work at Towson State University
3. successful completion of the advancement to degree candidacy examination
4. filing of a program of study with the dean of the graduate school
5. completion of all undergraduate requirements listed as prerequisites for the degree
6. at least one course for which the student may not register until advanced to degree candidacy (applies to students admitted fall 1980 and later).

Students are urged to meet the requirements of, and to make application for, advancement to degree candidacy within the 9- to 15-hour framework. Advancement to degree candidacy must be attained at least one semester prior to the semester in which the student will graduate (prior to January 1 for June graduation, prior to June 1 for September graduation, and prior to September 1 for December graduation).

ADVANCEMENT TO DEGREE CANDIDACY EXAMINATION

Each student must pass a written examination prior to advancement to degree candidacy. The purposes of the advancement to degree candidacy examination are to assess student writing competency and to determine the ability to develop program mastery. In certain programs the examination may also include an oral portion to be administered after the written part has been passed. Application for the examination must be made prior to the date established as the deadline for applying, as stated in the calendar in this Bulletin. Should the student not take the examination or have to repeat it, the application must be submitted again during the semester in which the examination is to be repeated.

In the program leading to the master's degree in instructional technology, the examination requirement may be satisfied by completing 0601.585, "Seminar in Instructional Technology," with a grade of "B" or higher. The programs in early childhood education, elementary education, and secondary education allow satisfaction of the examination requirement if 0801.501, "Educational Ideas in Historical Perspective," is completed with a grade of "B" or higher. The written advancement to degree candidacy examination is required when a grade of "A" or "B" is not attained. In the program leading to the master's degree in general studies, the examination requirement may be satisfied by completing 4901.501, "Introductory Seminar in General Studies," with a grade of "B" or higher. The student who receives less than "B" is required to remedy major deficiencies revealed by the course. This remedy may be in the form of additional course work, including independent study. When the student fulfills the requirements of the plan, the requirements for advancement are considered completed. The dates for applying to take the advancement examination and the dates of the examinations are shown in the academic calendar on page 1 of this Bulletin.

CREDIT FOR IN-SERVICE EXPERIENCES

A student applying for a graduate degree program in early childhood education, elementary education, secondary education, or reading may request degree credit for formal educational experiences taken beyond the baccalaureate degree if such experiences were sponsored by state or local boards of education in Maryland. Application for evaluation of experiences must be made by the student to the dean of the graduate school. The application must be accompanied by a portfolio of documentary evidence that attests to the quality of the experience for which credit is sought. Procedures pertaining to the evaluative process, as well as guidelines to assist the student in the preparation of the course portfolio may be secured from the office of the dean of the graduate school. A nonrefundable \$10 fee will be charged to the student for the evaluation of each course. An additional fee will be charged for each credit accepted.

WORKSHOP UPPER DIVISION COURSES AND INDEPENDENT STUDY LIMITATIONS

In all degree programs, a limit of twelve semester hours is placed on workshops, independent study, travel and study, directed reading, or other special-format courses. No more than six semester hours may be taken in any one format.

A maximum of nine hours of courses at the 300/400 levels may be permitted in a Master's degree program.

COMPREHENSIVE EXAMINATION

An option in each program is the requirement of a final comprehensive examination. This examination cannot be taken earlier than the term during which the student will complete all course work for the degree. The examination may be repeated only once. Application for the examination must be made prior to the date established as the deadline for applying, as stated in the calendar on page 1 of this Bulletin. Should the student not take the examination or have to repeat it, an application must again be submitted during the semester in which the examination is to be repeated.

THESIS PROCEDURE

Students intending to write a thesis as partial fulfillment of the requirements for the degree should obtain the brochure "Thesis Procedure" from the graduate office. The following requirements must be met prior to approval of registration for the appropriate thesis course:

1. The student meets with the graduate departmental coordinator to select a research advisor.
2. A thesis topic is agreed upon.
3. The student discusses the suggested members of the thesis committee with a graduate coordinator and the research advisor.
4. The committee agrees upon, and the student obtains all appropriate signatures on the thesis committee approval form.
5. The student submits the thesis committee approval form to the office of the dean of the graduate school.
6. The student prepares a thesis proposal and submits a copy to each member of the thesis committee.
7. The student and advisor schedule a meeting of the committee in which the student orally presents and defends the proposal.
8. The accepted proposal is filed with the office of the dean of the graduate school.
9. The student registers for the appropriate thesis course.

APPLICATION FOR GRADUATION

Each student must make application for graduation by submitting the graduate school diploma card and paying the appropriate graduate fee. The diploma card must be submitted by the published deadline date in the academic calendar on page 1 of this Bulletin. Students submitting the diploma card late must delay graduation for one semester.

If the student does not graduate at the indicated time, the diploma card must again be submitted during the semester in which graduation is desired. The graduation fee will be required with the first submission of the diploma card, but not with subsequent submissions.

REGISTRATION AND FEES

REGISTRATION

Information concerning registration may be obtained in the graduate office prior to each session. Students may avail themselves of the opportunity to register by mail according to graduate school and the division of continuing studies procedures. Post-baccalaureate students who have never applied for admission and are registering for the first time may take 300-500 level courses for graduate credit by completing the "application for admission to graduate studies." Registration for 600-level courses is contingent upon the granting of graduate student standing.

FEES

Tuition and other fees are subject to change without notice by action of the board of trustees.

Application fee: a non-refundable fee assessed each student	\$10.00
Tuition: undergraduate, per semester hour	\$36.00
graduate, per semester hour	\$54.00
Athletic fee: per semester hour; non-refundable	\$ 1.50
Registration fee: (non-refundable)	\$15.00
General university fee: (non-refundable)	\$11.50
Late registration fee (non-refundable)	\$15.00
Change of course fee: (non-refundable) assessed for the addition or subtraction of courses from either the original application or from the registration form	\$ 5.00
Transcript fee: (first copy free)	\$ 2.00
Car registration fee: an assessment for each student bringing a car on campus (each semester)	\$9.75
Final or make-up examination fee: if an examination is administered at other than the designated time	\$ 5.00
Laboratory fee: charges for certain courses	see course description
Private music lessons:	\$50.00 per semester hour plus tuition
Graduation fee: for master's degree plan A (with thesis)	\$30.00
plan B (without thesis)	\$25.00



GRADUATE PROGRAMS

PROGRAMS

Master of Arts

General Studies
Geography and Environmental Planning
Mass Communication
Psychology

Master of Science

Biology
Health Science
Instructional Technology
Speech-Language Pathology and Audiology

Master of Education

Art Education
Early Childhood Education
Elementary Education
Music Education
Reading
Secondary Education

M.A. IN GENERAL STUDIES

The master of arts degree in general studies is for students who wish to pursue an individually planned program of study not possible in a traditional master's degree program. The general studies program is interdisciplinary in nature, but the student may develop a concentration in a specific discipline if desired.

REQUIREMENTS

1. Undergraduate requirement—bachelor's degree from an accredited college or university.
2. Course requirements for the degree (minimum 36 semester hours)
 - a. Required courses
 - 1) GEST 4901.501, Introductory Seminar in General Studies (3)
This course must be taken within the first nine hours of degree work.
 - 2) GEST 4901.502, Culminating Seminar in General Studies (3)
This course must be taken during the last semester of the degree program.
 - b. Planned elective courses (30 s.h.)
 - 1) The elective credits must be approved for the student's program of study in advance of enrollment for the courses.
 - 2) At least 21 of the elective credits must be taken at the 500- or 600-levels.
 - 3) Twelve s.h. must be taken in the graduate school at Morgan State University.
 - 4) No more than 18 of the elective semester hours may be taken in any single discipline.

M.A. IN GEOGRAPHY AND ENVIRONMENTAL PLANNING

The master of arts degree program in geography and environmental planning is designed to prepare students for doctoral programs as well as career opportunities in private business and academic public agencies. The program is oriented toward applied geography and presents possibilities for a concentration in the following areas: urban-regional planning, urban studies, public policy issues, physical geography, economic development, environmental assessment, energy resources, cultural-historical geography, medical geography, population, area studies, and cartography.

The department also participates in a number of interdisciplinary programs and cooperates closely with programs in health science, biology, physics, education, economics, and sociology. Graduate students in geography and environmental planning are encouraged to take pertinent coursework in other departments.

Requirements

1. Undergraduate Requirements

- a. an undergraduate minor in geography or the equivalent in related courses and/or professional experience
- b. "B" grade average in the geography courses presented for admission

2. Requirements for the degree

A program of study will be prepared by each student in consultation with his/her advisor. All students must present evidence of at least four semesters of college-level competency in one foreign language or present evidence of quantitative competency. Successful completion of GEOG 2206.375, Quantitative Methods in Geography (or an approved equivalent), plus at least one other approved course in statistics or computer techniques are assumed to constitute quantitative competency. Students may elect one of the following two plans of study:

a. Plan A. Master of Arts with thesis, includes:

- 1) completion of a total of at least 30 semester hours of prescribed and elective course work in geography, 6 of which will be met by a thesis.
- 2) at least 21 semester hours in geography earned at the 500- and 600-levels.
- 3) a thesis in geography which demonstrates the ability to do independent research
- 4) course requirements for the degree
 - (a) GEOG 2206.501 (3)
 - (b) GEOG 2206.521 (3)
 - (c) GEOG 2206.699 (thesis) (6)
 - (d) electives (planned with advisor) 18 s.h.

b. Plan B. Master of Arts without thesis, requires:

- 1) completion of at least 36 semester hours of prescribed and elective course work in geography
- 2) at least 24 semester hours in geography earned at the 500- and 600-levels
- 3) Course Requirements for the degree
 - (a) GEOG 2206.501 (3)
 - (b) electives (planned with advisor) (33)

3. Advancement to candidacy examination

The examination may be taken after the completion of 9 semester hours (6 of which must be at the 500-600-levels) but not later than the semester

following the one in which 15 semester hours are completed. Part of the examination may be conducted orally.

4. Comprehensive examination

A comprehensive examination is required at the conclusion of all degree requirements in this field. Normally this will be an oral examination.

M.A. IN MASS COMMUNICATION

The master of arts degree in mass communication is structured to integrate communicology, film, journalism, public relations, radio and television. By emphasizing the interrelationships and interactions of various media, the program is modeled upon an holistic design.

Students who complete the master of arts degree in mass communication should have developed an in-depth knowledge of the history, philosophy, research methods and professional media skills appropriate to their academic pursuits and career goals.

Requirements

1. Undergraduate requirements

a. a bachelor's degree in mass communication

or

b. a minimum of 24 s.h. in mass communication or mass communication related courses approved by the graduate coordinator. The major or the 24 s.h. must include:

1) the following courses or their equivalents: 0605.355 or 0605.356; 0605.315; and 2001.111 or 1701.231

2) courses in three of the following areas: communicology, film, journalism, public relations, radio, television, English, psychology, or business administration

c. a minimum grade point average of 2.75

2. Requirements for the degree—they may be met by completing either of the following plans of study.

Plan A. Master of Arts with thesis (30 s.h.)

1. completion of a total of 24 s.h. of course work. A minimum of 21 must be earned at the 500/600 levels. The remaining semester hours may be selected from 400-, 500- or 600-levels.

2. at least 15 s.h. earned at the 500-600 levels from core concentration courses

3. completion of elective courses selected from courses approved by the graduate advisor.

4. advancement to degree candidacy examination. The examination may be taken after completion of 9 s.h. (6 of which must be at the 500-and 600-levels) and should not be taken later than the semester following the one in which 15 are completed. Part of the examination may be conducted orally.

5. a thesis which demonstrates the student's ability to do independent research in mass communication

6. a final comprehensive examination

a. A four hour written comprehensive examination

b. A two hour oral comprehensive examination

7. an oral defense of submitted thesis

Plan B. Master of Arts without thesis (33 s.h.)

1. 24 s.h. must be earned at the 500-600 levels. The remaining s.h. may be selected from 400-, 500- or 600-levels.
2. at least 15 s.h. earned at the 500-600 levels from core concentration courses
3. completion of elective courses selected from courses approved by the graduate advisor
4. advancement to degree candidacy examination. The examination may be taken after completion of 9 s.h., (6 of which must be at the 500 and 600 levels) and should not be taken later than the semester following the one in which 15 s.h. are completed. Part of the examination may be conducted orally.
5. A final comprehensive examination
 - a. a four hour written comprehensive examination
 - b. a two hour oral comprehensive examination

M.A. IN PSYCHOLOGY

The master of arts degree program in psychology offers the student an opportunity of in-depth specialization in one of four psychological areas. The areas are clinical psychology, counseling, experimental psychology and school psychology. Each is described below in detail with reference to objectives and requirements.

CLINICAL PSYCHOLOGY

The area of clinical psychology aims primarily at training M.A.-level psychologists for employment in state and other nonprofit organizations. These psychologists will be able to provide services to patients and clients under the direct and continuing supervision of psychologists certified by the State Board of Examiners of Psychologists and a medical staff. The program also seeks to prepare students for further graduate study in psychology.

Requirements

1. Undergraduate requirements in psychology (24 s.h.)
 - a. Courses in the following areas:
 - 1) General Psychology (3)
 - 2) Child Psychology (3)
 - 3) Adolescent Psychology (3)
 - 4) Abnormal Psychology (3)
 - 5) Personality (3)
 - 6) Behavioral Statistics (3)
 - 7) Tests and Measurements (3)
 - 8) Experimental Psychology or Learning (3)

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined in paragraph 2 below.

- a. acceptable performance on the aptitude test of the graduate record examination
 - b. an interview with the coordinator of the clinical psychology area
 - c. two letters of recommendation
2. Course requirements for the degree may be met by completing either one of the following plans of study:

2. Plan A: Master of Arts without thesis (minimum 39 s.h.)
 - 1) Required courses
 - *a) PSYC 2001.531 Advanced Abnormal Psychology (3)
 - *b) PSYC 2001.520 Individual Intelligence Testing (3)
 - *c) PSYC 2001.591 Projective Techniques I (3)
 - d) PSYC 2001.592 Projective Techniques II
 - e) PSYC 2001.565 Psychotherapy and Behavior Change I (3)
 - f) PSYC 2001.566 Psychotherapy and Behavior Change II (3)
 - g) PSYC 2001.553 Research Issues in School/Clinical Psychology (3)
 - h) PSYC 2001.1551 Techniques of Group Intervention (3)
 - i) PSYC 2001.690 Seminar in School/Clinical Psychology (3)
 - j) PSYC 2001.597 Practicum in Clinical Psychology (3)
 - k) PSYC 2001.652 Internship in School/Clinical Psychology (3)
 - 2) Electives—Six semester hours of courses are elected by the student from within or outside the field of psychology to complement the program of study. Such courses must have prior written consent of the area coordinator.
2. Plan B: Master of Arts with Thesis (minimum 39 s.h.)
 - 1) Required courses are identical to those in plan A
 - 2) One elective is dropped to permit registration for the thesis course, PSYC 2001.699 (3)

NOTE: A final comprehensive examination is required; additionally, the internship carries with it a residency requirement of one semester. The student must be available for placement in a clinical setting.

COUNSELING

The purpose of the counseling area is to develop professionally responsible individuals capable of facilitating a counselee's personal growth and development. He/she is trained to help the client explore educational, vocational and personal goals, and seeks to facilitate the counselee's development of a meaningful course of action in these areas. The training program requires an understanding of psychological principles and reflects professional practices and responsibilities consistent with current research findings. Graduates of the counseling program must demonstrate proficiency in two areas. First, a student must successfully complete the advancement to candidacy and comprehensive written examinations in order to show that he or she is thoroughly grounded in those theoretical, research, and other academic competencies upon which successful counseling is based. Second, since counseling psychology is an applied field, the student must successfully demonstrate the utilization of appropriate skills and techniques in helping actual clients to identify and to solve personal problems. The student must select a concentration in counseling from:

- a. elementary school counseling
- b. secondary school counseling
- c. career counseling
- d. community counseling
- e. rehabilitation Counseling

Requirements

1. Undergraduate requirements
 - a. Courses in the following areas:

- 1) General Psychology (3)
- 2) Behavioral Statistics (3)
- 3) Introduction to Tests and Measurements (3)
- b. Acceptable achievement on the Miller Analogies Test
2. Additional undergraduate requirements in psychology (3)
 - a. For students applying for elementary school counseling concentration: Child Psychology (3)
 - b. For students applying for secondary school counseling concentration: Adolescent Psychology (3)
 - c. For students applying for career counseling concentration: Child or Adolescent Psychology (3)
 - d. For students applying for community counseling concentration and rehabilitation counseling concentration: Abnormal Psychology (3)
3. Course requirements for the degree (minimum 39 s.h.)
 - a. Required courses for all candidates (12 s.h.)
 - 1) PSYC 2001.515 Introduction to Research Methods in Counseling (3)
 - 2) PSYC 2001.505 Counseling Techniques (3)
 - 3) PSYC 2001.507 Applied Theories of Counseling (3)
 - 4) PSYC 2001.621 Group Counseling (3)
 - b. Elementary School Counseling:
 - 1) PSYC 2001.509 Counseling Psychology—Pre-Practicum (3)
 - 2) PSYC 2001.511 Developmental Psychology (3)
 - 3) PSYC 2001.515 Introduction to Research Methods (3)
 - 4) PSYC 2001.605 Principles of Guidance (3)
 - 5) PSYC 2001.606 Introduction to Career Development (3)
 - 6) PSYC 2001.611 Analysis of the Individual (3)
 - 7) PSYC 2001.621 Group Techniques in counseling (3)
 - 8) PSYC 2001.630 Counseling the Elementary School Child (3)
 - 9) PSYC 2001.645 Counseling Practicum (6)
 - 10) Elective or Thesis
 - c. Secondary School Counseling
 - 1) PSYC 2001.509 Counseling Psychology—Pre-Practicum (3)
 - 2) PSYC 2001.511 Developmental Psychology (3)
 - 3) PSYC 2001.515 Introduction to Research Methods (3)
 - 4) PSYC 2001.605 Principles of Guidance (3)
 - 5) PSYC 2001.606 Introduction to Career Development (3)
 - 6) PSYC 2001.611 Analysis of the Individual (3)
 - 7) PSYC 2001.621 Group Techniques in Counseling (3)
 - 8) PSYC 2001.627 Use of Tests in Counseling (3)
 - 9) PSYC 2001.645 Counseling Practicum (6)
 - 10) Elective or Thesis (3)
 - d. Career Counseling
 - 1) PSYC 2001.515 Introduction to Research Methods (3)
 - 2) PSYC 2001.605 Principles of Guidance (3)
 - 3) PSYC 2001.606 Introduction to Career Development (3)
 - 4) PSYC 2001.607 Information Service in Guidance and Counseling (3)
 - 5) PSYC 2001.608 Media in Career Education (3)

- 6) PSYC 2001.611 Analysis of the Individual (3)
 - 7) PSYC 2001.621 Group Techniques in Counseling (3)
 - 8) PSYC 2001.627 Use of Tests in Counseling (3)
 - 9) PSYC 2001.645 Counseling Practicum (6)
 - 10) Elective or Thesis (3)
- e. Community Counseling
- 1) PSYC 2001.509 Counseling Psychology—Pre-Practicum (3)
 - 2) PSYC 2001.511 Developmental Psychology (3)
 - 3) PSYC 2001.513 Community Mental Health Counseling (3)
 - 4) PSYC 2001.515 Introduction to Research Analysis (3)
 - 5) PSYC 2001.531 Advanced Abnormal Psychology (3)
 - 6) PSYC 2001.621 Group Techniques in Counseling (3)
 - 7) PSYC 2001.627 Use of Tests in Counseling (3)
 - 8) PSYC 2001.645 Counseling Practicum (6)
 - 9) Elective (3)
 - 10) Elective or Thesis (3)
- f. Rehabilitation Counseling
- 1) PSYC 2001.515 Introduction to Research Methods (3)
 - 2) PSYC 2001.561 Foundations of Rehabilitation Counseling (3)
 - 3) PSYC 2001.567 Psychosocial Aspects of Disabilities (3)
 - 4) PSYC 2001.568 Mental Aspects of Disability (3)
 - 5) PSYC 2001.593 Internship in Rehabilitation Counseling (3)
 - 6) PSYC 2001.606 Introduction to Career Development (3)
 - 7) PSYC 2001.621 Group Techniques in Counseling (3)
 - 8) PSYC 2001.627 Use of Tests in Counseling (3)
 - 9) PSYC 2001.645 Counseling Practicum (6)
 - 10) Elective or Thesis (3)
4. Electives selected by the student must have prior written consent of the advisor and must be approved for the student's program of study.
5. advancement to degree candidacy examination
- The examination is generally taken in the semester during which 15 semester hours of graduate work are completed; however, the student may elect to take the examination at any time during his/her program of study. The examination consists of two parts: written and oral. The written part must be taken and passed before the student can take the oral section. The examination includes the following course work:
- a. PSYC 2001.505 Counseling Techniques (3)
 - b. PSYC 2001.507 Applied Theories of Counseling (3)
 - c. PSYC 2001.411 Tests and Measurements (3)
 - d. One of the following, depending upon the student's area of concentration: 2001.404, Adolescent Psychology; 2001.361, Abnormal Psychology; 2001.211, Child Psychology.
6. Comprehensive examination

EXPERIMENTAL PSYCHOLOGY

The purpose of the experimental psychology area is to educate students in the basic historical, methodological, theoretical and conceptual bases of psychology. The student obtains a firm background in statistics. In addition a meaningful individualized program of electives may be pursued by taking courses in a number of different areas including experimental, physiological, clinical and computer science.

Students who complete this program will be prepared to pursue other advanced degrees in psychology in any specialty area, or compete for such positions as psychometrician, laboratory researcher, or experimental designer.

Requirements

1. Undergraduate requirements
 - a. Courses in the following areas:
 - 1) Statistics (3)
 - 2) Experimental Psychology (3)
 - 3) Learning (3)
2. Course requirements for the degree (39 s.h.) They may be met by completing the following:
 - a. Core Program (25 or 28 s.h.)
 - 1) PSYC 2001.575 Proseminar I (3)
 - 2) PSYC 2001.576 Proseminar II (3)
 - 3) PSYC 2001.587 Advanced Experimental Design I (3)
 - 4) PSYC 2001.588 Advanced Experimental Design II or 2001.589 Multivariate Methods (3)
 - 5) PSYC 2001.573 Advanced Experimental Psychology I or PSYC 2001.574 Advanced Experimental Psychology II (4)
 - 6) PSYC 2001.581 Advanced History & Systems (3)
 - 7) PSYC 2001.577 Learning (3)
 - 8) PSYC 2001.699 Thesis (3 to 6)
 - b. Elective courses (11 or 14 hours)

The student may choose any graduate elective at the 300- to 600-level.
3. Advancement to degree candidacy examination.

SCHOOL PSYCHOLOGY

The area of school psychology prepares qualified students for certification as school psychologists in Maryland. Because of the broad application of skills, the students usually are also prepared to serve as M.A. level psychologists in a variety of nonprofit organizations. The program also seeks to prepare students for advanced graduate study in psychology.

Requirements

1. Undergraduate requirements in psychology (total 24 s.h.)
 - a. Courses in the following areas:
 - 1) General Psychology (3)
 - 2) Human Growth and Development (6 s.h. selected from the following, to cover both child and adolescent areas)
 - a) Child Psychology (3)
 - b) Infancy and Childhood (3)
 - c) Human Development (3)
 - d) Adolescent Psychology (3)
 - e) Educational Psychology (3)
 - 3) Abnormal Psychology (3)
 - 4) Personality (3)
 - 5) Behavioral Statistics (3)
 - 7) Experimental Psychology or Human Learning (3)

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree, as defined in paragraph 2 below. These courses must be completed prior to initiation of course work for the degree.

- b. acceptable performance on the aptitude test of the graduate record examination
- c. a satisfactory interview with the coordinator of the school psychology area
- d. two letters of recommendation

2. Course requirements for the degree may be met by completing either of the following two plans of study:

Plan A: Master of Arts without thesis (minimum 39 s.h.)

1) Required courses

- *a) PSYC 2001.531 Advanced Abnormal Psychology (3)
- *b) PSYC 2001.520 Individual Intelligence Testing (3)
- *c) PSYC 2001.591 Projective Techniques I (3)
- d) PSYC 2001.592 Projective Techniques II (3)
- e) PSYC 2001.511 Developmental Psychology (3)00342)
- f) PSYC 2001.475 Identification and Treatment of Sensory Disabilities in the Schools (3)
- g) PSYC 2001.553 Research Issues in School/Clinical Psychology (3)
- h) PSYC 2001.551 Techniques of Group Intervention (3)
- i) PSYC 2001.690 Seminar in School/Clinical Psychology (3)
- j) PSYC 2001.651 Practicum in School/Clinical Psychology (3)
- k) PSYC 2001.652 Internship in School/Clinical Psychology (3)

2) Electives—six semester hours of courses are elected by the student from within or outside the field of psychology to complement the program of study. Such courses must have prior written consent of the area coordinator.

Plan B: Master of Arts with thesis (minimum 39 s.h.)

- 1) Required courses are identical to plan A
- 2) One elective is dropped to permit registration for the thesis course, PSYC 2001.699 (3 to 6 s.h.)

A final comprehensive examination is required and the internship carries with it a residency requirement of one semester. The student must be available for placement in a school or clinic.

*Courses must be completed or in progress prior to advancement to degree candidacy examination.

M.S. IN BIOLOGY

The master of science degree program in biology is designed to help the student develop proficiency in independent thought, inquiry, and research. The thesis program will provide the necessary background and experience for those who plan further study for the Ph.D., whose employment requires an advanced degree in biology, or who desire to teach in community colleges. The non-thesis program is designed for those who want a broader background in biology, and secondary school teachers who want to extend their knowledge and increase their competence in cultivating the spirit of scientific inquiry through course work and optional research projects.

Requirements

1. A supplemental application must be filed for admission to the master science degree program in biology.
2. Graduate Record Examination scores on the Aptitude Test and Advanced Test in Biology must be submitted.
3. Three letters of recommendation from persons familiar with the student's scientific work and aptitude must be sent to the biology graduate coordinator. The letters should be submitted by former instructors in the student's undergraduate major or from a current supervisor in the field of biology.
4. Undergraduate requirements
 - a. minimum of 24 s.h. in biology
 - b. allied courses in general and organic chemistry and physics
 - c. grade point average of 3.0 in biology and 3.0 overall cumulative average is required for full admission. A grade point average of 2.5 in biology and 2.5 overall cumulative average is required for conditional admission
 - d. students should indicate their area of specialization in order to select an advisor. Those intending to enter the non-thesis program should obtain an interview with the biology graduate coordinator upon admission into the program.
5. Requirements for the degree
 - a. Master of Science with thesis (minimum 30 s.h.)

At least 21 s.h. at the 500- and 600-levels. A thesis based on laboratory and/or field research is required. The final examination is an oral defense of the thesis. The student must pass the advancement to degree candidacy examination.

 - 1) Required courses 4 s.h.
 - a) BIOL 0401.697 Graduate Seminar (1)
 - b) BIOL 0401.699 Thesis (3)
 - 2) Elective courses (26 s.h.)
 - a) Selected from courses approved by the student's graduate committee.
 - b) Upon approval of the graduate committee, a maximum of 6 s.h. in allied courses from other departments may be applied toward degree requirements.

NOTE: The student planning to elect the thesis option should obtain an interview with the graduate program coordinator before initiating course work.

- b. Master of Science without thesis (minimum 36 s.h.)

At least 27 s.h. must be at the 500- and 600-levels. The student must pass the advancement to degree candidacy examination.

 - 1) Required courses (1 s.h.)
 - a) BIOL 0401.697 Graduate seminar (1)
 - 2) Elective courses (35 s.h.)
 - a) Chosen from courses approved for the program of study by the biology graduate coordinator and must include a minimum of 26 s.h. at the 500 and 600 levels
 - b) upon approval of the graduate committee, a maximum of 6 s.h. in allied courses from other departments may be applied toward degree requirements

6. Area of concentration

Under either the thesis or non-thesis option, a student may, with the approval of the graduate advisor and the biology graduate committee, choose an area of concentration which will be recorded on the transcript.

M.S. IN INSTRUCTIONAL TECHNOLOGY

Students select one of two concentrations. Track I, entitled Instructional Development, offers a flexible program of study designed to develop instructional media competencies for those who wish to work in training or instructional settings in business, industry, government, military or medical education. Track II, entitled Educational Media Generalist, meets the Maryland State Department of Education requirements for the Media Generalist Certification, and is designed for students who wish to serve as directors of school media centers.

TRACK I, INSTRUCTIONAL DEVELOPMENT

Requirements

1. Undergraduate requirements
 - a. completion of a baccalaureate degree from an accredited college or university
 - b. completion of the following course or its equivalent:
0601.301 Utilization of Instructional Media
2. Applicants must obtain satisfactory ratings in all admissions tests.
3. Conditionally admitted students are required to write an essay. The intent of the essay is to test the competency of the applicants in written communication.
4. Course requirements for the degree.
 - a. Plan A: Master of Science with Thesis (minimum 33 s.h.)
 - 1) Required courses (18 s.h.)
 - a) ISTC 0601.563 Applied Psychology of Learning (3)
 - b) ISTC 0601.567 Instructional Development (3)
 - c) ISTC 0601.585 Seminar in Instructional Technology (3)
 - d) ISTC 0601.695 Research in Instructional Technology (3)
 - e) ISTC 0601.699 Master's Thesis in Instructional Technology (6)
 - 2) Elective courses (12 s.h.)

Selection of elective courses must be made with the advice and approval of a program advisor. Nine semester hours must be in instructional technology and three hours may be within or outside the department.
 - b. Plan B: Master of Science without Thesis (minimum 36 s.h.)
 - 1) Required courses except for thesis are identical to plan A.
 - 2) Elective courses (21 s.h.)

Selection of elective courses must be made with the advice and approval of a program advisor. Twelve semester hours must be in instructional technology and nine semester hours may be within or outside the department.

TRACK II, EDUCATIONAL MEDIA GENERALIST

Requirements

1. Undergraduate Requirements
 - a. Baccalaureate degree from accredited college or university and the following courses or their equivalents:
 - 1) 2001.201 Educational Psychology (3)
 - 2) 0803.319 Survey of Educational Programs (3)
 - 3) ONE of the following:
 - a) EDUC 0801.401 Foundations of Education (3)
 - b) EDUC 0801.402 History of Education (3)
 - c) EDUC 0801.405 Philosophy of Education (3)
 - b. Completion of the following courses or their equivalents:
 - 1) ISTC 0601.301 Utilization of Educational Media (3)
 - 2) ISTC 0601.471 Reference and Information Sources (3)
 - 3) ISTC 0601.473 Cataloging and Classifying Media (3)
2. Applicants must obtain satisfactory ratings in all admissions tests.
3. Conditionally admitted students are required to write an essay. The purpose of the essay is to test the applicant's competency in written communication skills.
4. Course requirements for the degree.
 - a. Plan A: Master of Science with thesis (minimum 30-36 s.h.)
 - 1) Required courses:
 - a) ISTC 0601.555 Media Design and Production (3)
 - b) EDUC 0601.417 Children's Literature (3) or 0801.418 Young Adult Literature (3)
 - c) ISTC 0601.501 Organization and Administration of Media Center Programs (3)
 - d) ISTC 0601.515 Media Selection (3)
 - e) ISTC 0601.563 Applied Psychology of Learning (3)
 - g) ISTC 0601.585 Seminar in Instructional Technology (3)
 - h) ISTC 0601.695 Research in Instructional Technology (3)
 - i) ISTC 0601.689 Internship in Instructional Technology (required only if the student has not had a practicum or two years of successful teaching of media-related experience) (6)
 - (j) ISTC 0601.699 Master's Thesis in Instructional Technology (6)
 - 2) At least 24 semester hours of courses must be at the 500 and 600 levels.
 - b. Plan B: Master of Science without thesis (minimum 36 s.h.)
 - 1) Required courses are identical to Plan A, except for the deletion of 0601.699, Master's Thesis in Instructional Technology (6)
 - 2) Elective courses (6-12 s.h.)
 - 3) At least 27 semester hours of courses must be at the 500- and 600-levels.

M.S. IN HEALTH SCIENCE

Towson State University offers a three-track program leading to a Master of Science degree with specializations in school health, community health education, or administration. The student may enter the program which best meets educational objectives and career goals. Upon completion of the degree program, the student will have acquired knowledge and understanding of the facts, theories and principles basic to the science of school health, community health,

or administration in health services as well as in supporting biological, behavioral, sociological and educational areas. The community health education program is designed to meet the accreditation standards of the American Public Health Association.

The student entering the school health track can consider future employment possibilities in the following areas: classroom health teacher, supervisor or coordinator of the health science program within a school system, health educational media specialist, program evaluation specialist within a school system, continuing education and school personnel department.

A graduate of the community health education program may pursue a career as a health education specialist in an official health agency such as a state or local health department, a federal agency or a voluntary health agency. Students holding current credentials in pharmacy, nursing, dentistry, dietetics and other professions may wish to combine their skills from prior training, and redirect their careers toward community education related to their specific prior training. With a master of science degree in community health education, students are also qualified to seek employment with various public health agencies, or expand their own practice. Because the program provides professional training in public health and administrative skills, many other opportunities may be available to the student.

A graduate of the program with administrative concentration will be prepared for positions in public health which require sound backgrounds in both public health and administration.

Requirements

A. M.S. in school health education and M.S. in community health

1. Undergraduate requirements

- a. an undergraduate degree in health education or health science
- b. a minimum of 24 semester hours of course work in health and related science, (nine must be in health education, and 15 in psychology, sociology, anthropology, biology or chemistry) and
- c. fifteen semester hours of course work in health sciences with related work or field experiences as determined by the graduate faculty of the health science department

B. M.S. health science, administrative concentration

1. Undergraduate requirements

- a. an undergraduate degree in a health science field (nursing, health education, environmental studies, psychology)
OR
- b. a minimum of 24 semester hours in course work in health and related sciences, with field experiences or continuous employment as accepted by the graduate faculty of the health science department
- c. a minimum of 15 semester hours in course work in health and related sciences, with field experiences or continuous employment as accepted by the graduate faculty of the health science department.

C. Requirements for the degree

1. General requirements are for 27 semester hours of health education courses and a minimum of 9 in a support area such as psychology, sociology, biology, counseling, education, instructional technology, business administration, geography or another approved area. The program of study with the administrative concentration contains 24

semester hours of health science courses and 12 in business administration. Community health education students may select supervised field work rather than the support area.

School Health Education

Health Science Core — 12 s.h.

- 1201.539 Education and Training in Health Care (3)
- 1201.525 Research Methods (3)
- 1201.685 Graduate Seminar (3)
- 1201.501 School Health Problems (3)

Content Health Core — 6 s.h.

- 1201.401 Sex Education and Family Life (3)
- 1201.405 Drugs in Our Culture (3)
- 1201.451 Ecological Aspects of Health (3)
- 1201.537 Leadership Skills (3)

Elective Health Core — 6 s.h.

Supportive Core — 9 s.h.

Final Project 3 s.h.

- 1201.699 Masters Thesis in Health (3) OR
- 1201.697 Graduate Project in Health Science (3)

Community Health

Health Science Core — 12 s.h.

- 1201.539 Education and Training in Health Care (3)
- 1201.525 Research Methods (3)
- 1201.685 Graduate Seminar (3)
- 1201.501 School Health Problems (3)

Content Health Core — 6 s.h.

- 1201.401 Sex Education and Family Life (3)
- 1201.405 Drugs in Our Culture (3)
- 1201.451 Ecological Aspects of Health (3)
- 1201.537 Leadership Skills (3)

Elective Health Core — 6 s.h.

Supportive Core — 9 s.h.

Final Project 3 s.h.

- 1201.699 Masters Thesis in Health (3) OR
- 1201.697 Graduate Project in Health Science (3)

Community Health

Health Science Core — 18 s.h.

- 1202.539 Education and Training in Health Care (3)
- 1201.515 Research Methods (3)
- 1201.685 Graduate Seminar (3)
- 1201.105 School Health Problems (3)
- 1201.515 Quantitative and Qualitative Elements (3)
- 1201.531 Program Planning in Health Education (3)

Content Health Core — 6 s.h.

- 1201.533 Health Care Systems (3)

Administration

Health Science Core — 12 s.h.

- 1201.501 School Health Problems (3)
- 1201.531 Program Planning in Health Education (3)
- 1201.533 Health Care Systems (3)
- 1201.541 Patient Education (3)
- 1201.517 Public Health Administration (3)
- 1201.537 Leadership Skills (3)

Support Core — 12 s.h. Business Admin.

- 0506.361 Management Theory (3)

Final Project — 3 s.h.

- 1201.699 Masters of Thesis in Health (3) OR
- 1201.697 Graduate Project in Health Science.

M.S. IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

The master of science degree program in speech-language pathology and audiology is designed to enable pre-professionals in the field, e.g., those with a bachelor's degree in speech-language pathology and audiology, to meet the academic and clinical practicum requirements of the national and state speech-language and hearing associations. The speech-language pathology and audiology program provides the student with (1) an in-depth investigation of specific disorders of speech, language and hearing; (2) intensive study of normal speech and language development; (3) development of appropriate therapeutic goals, procedures, and materials; (4) and extensive clinical practice experience in on-campus and off-campus settings with a variety of clinical cases.

Students may elect to specialize in either speech-language pathology or audiology. Applicants should indicate their area of emphasis on the application form.

Completion of the degree prepares the individual to meet academic and practicum requirements for certification and licensure to compete for employment in public school, clinical, or hospital settings; and to pursue advanced degrees in this field. All clinical practicum clock hour requirements of ASHA must be completed before the M.S. degree will be awarded.

Individuals without an undergraduate degree in speech-language pathology and audiology must complete 33 s.h. of undergraduate coursework from designated prerequisite courses prior to applying for admissions into the Master of Science Program.

Requirements

1. Undergraduate requirements
 - a. Bachelor's degree in speech-language pathology and audiology with a minimum of 33 semester hours or 42 quarter hours. A minimum of one course in clinical practicum is required (students without this course must take it as a part of their graduate program, necessitating a 39 semester hour degree program).
 - OR
 - b. Completion of 33 semester hours of undergraduate coursework in speech-language pathology and audiology, including the following courses or their equivalents:
 - 1) SPPA 1220.105 Speech and Language Development (3)
 - 2) SPPA 1220.210 Phonethics of American English (3)

- 3) SPPA 1220.300 Anatomy and Physiology of the Auditory and Vocal Mechanisms (3)
 - 4) SPPA 1220.310 Hearing and Speech Science (3)
 - 5) SPPA 1220.302 Speech Pathology I (3)
 - 6) SPPA 1220.304 Speech Pathology II (3)
 - 7) SPPA 1220.305 Stuttering Etiology and Therapy (3)
 - 8) SPPA 1220.396 Speech Pathology III (3)
 - 9) SPPA 1220.321 Introduction to Audiology (3)
 - 10) SPPA 1220.486 Clinical Observation and Techniques (3)
 - 11) SPPA 1220.487 Clinical Practice I (3)
2. acceptable evaluation by three persons familiar with the applicant's scholarly and clinical work and aptitude. Evaluations should come from the applicant's former instructors and/or clinical supervisors. Evaluations must be completed on the speech-language pathology and audiology rating form, which may be obtained by calling or writing to the department.
 3. acceptable performance on the Miller Analogies Test.
 4. Course requirements for the degree
 - a. Speech-language pathology specialization (36 s.h. 27 of which must be at the 500-600 levels)
 - 1) Required courses (3 s.h.)
 - a) SPPA 1220.513 Introduction to Research in Speech Pathology and Audiology (1)
 - b) SPPA 1220.645 Advanced Clinical Practice (2)
Taken 1 s.h. every semester in which any practicum assignment is made until all clinical clock hours are completed. Only two semester hours apply toward the degree.
 - 2) Speech/language sequence (21 s.h.)
 - a) Speech and speech pathologies (9)
Minimum of nine semester hours in courses which deal with nature and development of speech processes and/or with the nature, development, etiology, and treatment of speech pathologies
 - b) Language and Language Pathologies (9)
Minimum of 9 semester hours in courses which deal with the nature and development of language processes and /or language pathologies
 - c) The remaining three semester hours may be taken in either area.
 - 3) Audiology sequence (6 s.h.)
 - a) One auditory disorders course (3 s.h.) and one aural habilitation
 - 4) Non-major/minor sequence (6 s.h.)
The student must elect six course hours (3 s.h.) of courses outside the areas of speech-language pathology and audiology. Specific courses and areas must be approved by the advisor, and may include such areas as speech/hearing sciences, experimental phonetics, psychology, education, linguistics, and physics, among others. At least one of these courses must be at the 500-600 level.
 - b. Audiology specialization (36 s.h., 27 of which must be at the 500-600 levels)
 - 1) Required courses (3s.h.)
 - a) SPPA 1220.513 Introduction to Research in Speech Pathology and Audiology (1)

- b) SPPA 1220.645 Advanced Clinical Practice (2)
Taken 1 s.h. every semester in which any practicum assignment is made until all clinical clock hours are completed. Only two semester hours apply toward the degree.
- 2) Audiology sequence (21 s.h.)
 - a) Auditory disorders (9)
Minimum of nine semester hours in courses which deal with auditory disorders.
 - b) Aural habilitation/rehabilitation (6 s.h.)
Minimum of six semester hours from courses which deal with aural habilitation/rehabilitation.
 - c) Conservation (3)
 - d) Instrumentation (3)
- 3) Speech/Language sequence (6 s.h.)
 - a) One course (3 s.h.) which deals with the nature, development, etiology, diagnosis and treatment of language disorders.
 - b) One course (3 s.h.) which deals with the nature, development, etiology, diagnosis and treatment of speech disorders.
- 4) Non-major/minor sequence (3 s.h.)
The student must elect six semester hours from courses outside the areas of speech pathology and audiology. Specific courses and areas must be approved by the advisor, and may include such areas as speech/hearing sciences, experimental phonetics, psychology, education, physics, and geography among others. At least one of these courses must be at the 500-600 level.
- 5. Advancement to degree candidacy examination. The examination will consist of three essay questions in the student's major area of emphasis, and one essay question in the student's minor area of emphasis within the department.
- 6. Students must demonstrate acceptable writing skills in all clinical and academic work. Students showing weakness in this area may be advised to take 1220.311 (Technical Writing in SPPA) in addition to their degree work.

M.ED. IN ART EDUCATION

The master of education degree program in art education is structured to provide insights into the creative process and its educational, therapeutic and historical implications. It also aims to increase understanding, sensitivity and skill in the graphic and plastic arts.

Requirements

- 1. Undergraduate requirements in education and art
 - a. Certification as a public school art teacher
 - OR
 - b. Courses in both art and education areas as follows (32 s.h.):
 - 1) Art (27 s.h.)
 - a) Fundamentals of Design (two-and three-dimensional) (6)
 - b) Ceramics and Sculpture (6)
 - c) Drawing, Painting and Graphic Processes (some credit required in each area) (6)
 - d) Art History (6)
 - 2) Education (5 s.h.)

- a) Educational Psychology or Human Growth and Development (3)
 - b) Methods of Teaching Art (2)
- 2. Course requirements for the degree (may be met by completing either one of the following two plans of study):
 - a. Plan A: Master of Education with thesis (minimum 30 s.h.)
 - 1) Required courses (15 s.h.)
 - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - b) PSYC 2001.511 Developmental Psychology (3)
 - c) ART 0831.595 Research in Art and Art Education (3)
 - d) ART 0831.697 Seminar in Art Education (3)
 - e) ART 1001.699 Master of Education Thesis (3) OR ART 1001.698 Graduate Project in Art (3)
 - 2) The thesis requirement may be met in one of two ways:
 - a) by writing a thesis dealing with a selected problem in art and art education, (3) OR
 - b) by undertaking a creative project. The advisor must approve the project proposal in writing. The student will exhibit the completed project at a suitable location and accompany it with written material defining its scope and philosophic content, (3)
 - 3) Elective courses (15 s.h.)
 - a) Courses numbered 500 to 699 should ordinarily be chosen, but a maximum of nine semester hours in courses numbered 300 to 499 may be taken with approval of the student's advisor.
 - b) Six semester hours may be taken in departments other than art and art education.
 - b. Plan B: Master of Education without thesis (minimum 33 s.h.)
 - 1) Required Courses (12 s.h.)
 - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - b) PSYC 2001.511 Developmental Psychology (3)
 - c) ART 0831.595 Research in Art and Art Education (3)
 - d) ART 0831.697 Seminar in Art Education (3)
 - 2) Elective courses (21 s.h.)
 - a) Courses numbered 500 to 699 should ordinarily be chosen, but a maximum of nine semester hours of work in graduate level courses numbered 300 to 499 may be taken with the signed approval of the student's advisor.
 - b) Six semester hours may be taken in departments other than art and art education.

M.ED. IN EARLY CHILDHOOD EDUCATION

The master of education degree program in early childhood education is structured to help teachers and others increase their competence in working in education programs for children, from birth through eight years of age. It is designed to prepare teachers, directors, and supervisors for various education for programs young children such as day care centers, public and private nursery schools, kindergartens, and primary school.

Requirements

- 1. Undergraduate requirements in education
 - a. Certification as an early childhood education public school teacher
OR
 - b. Certification as an elementary public school teacher plus six semester hours in early childhood education at the undergraduate level
OR

- c. Courses in the following areas (total: 15 s.h.):
 - 1) General Psychology, Educational Psychology, or Psychology of Learning (3)
 - 2) Child Psychology, Child Growth and Development, Human Growth and Development, or Personality (3)
 - 3) Curriculum and Methods in Early Childhood Education (6 s.h.)
 - 4) Three hours chosen from the following areas:
 - a) History of Education
 - b) Foundations of Education
 - c) Philosophy of Education
 - d) Principles of Education
 - e) Sociology of Education

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined below.

2. Course requirements for the degree may be met by completing either one of the following two plans of study:

- a. Plan A.: Master of Education with thesis (minimum 30 s.h.)

- 1) Required courses (12 s.h.)
 - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - b) EDUC 0801.691 Introduction to Research in Education (3)
 - c) ECED 0823.599 Master's thesis in Early Childhood Education (3)
 - d) ECED 0823.509 Growth and Development of Young Children (3) OR
PSYC 2001.511 Developmental Psychology (3)

- 2) Elective Courses (18 s.h.)

- a) Twelve semester hours must be earned in departments other than Education, except with approval of the program coordinator.
- b) Selection of courses should be made with the advice and approval of the program coordinator. Each program of study is designed to meet the needs and interests of the individual student.
- c) At least nine semester hours must be selected from courses numbered 500 to 699.

- b. Plan B: Master of Education without thesis (minimum 33 s.h.)

- 1) Required Courses (12 s.h.)
 - 1) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - 2) ECED 0823.573 Seminar in Early Childhood Education (3)
 - 3) EDUC 0801.691 Introduction to Research in Education (3)
 - 4) ECED 0823.509 Growth and Development of Young Children (3) OR
PSYC 2001.511 Developmental Psychology (3)

- 2) Elective courses (21 s.h.)

- a) Twelve semester hours must be earned in departments other than education, except with the approval of the program coordinator.
- b) Selection of courses should be made with the advice and approval of the program coordinator. Each program of study is designed to meet the needs and interests of the individual student
- c) At least 12 semester hours must be selected from courses numbered 500 to 699.

M.ED IN ELEMENTARY EDUCATION

A PROGRAM MAY BE DEVELOPED WHICH INCLUDES ONE OF THE FOLLOWING EMPHASES: CURRICULUM, RESOURCE TEACHING, READING, EDUCATIONAL LEADERSHIP, LEARNING DIFFICULTIES, OR THE GIFTED STUDENT.

In order to enable the in-service teacher to continue progress toward the achievement of academic and professional goals, the master of education degree program in elementary education is designed to (1) assist the student in assessing his/her level of competency as a teacher and to build upon his or her educational and professional experience; (2) provide avenues through which the individual may continue to grow in understanding, involvement in, and appreciation of the emerging society; (3) help the student to extend teaching competencies to new levels of development; (4) encourage a spirit of inquiry and teaching research skills useful in continuing study; (5) help the student acquire a deepening functional understanding of human growth and development; and (6) guide the student toward understanding his/her role as agent of changes within the educational enterprise.

Requirements

1. Prerequisites
 - a. Certification as an elementary public school teacher
OR
 - b. Courses in the following areas (12 s.h.):
 - 1) Educational Psychology or Human Growth and Development (3)
 - 2) Organization and Curriculum of the Elementary School (6)
 - 3) Three semester hours chosen from the following areas:
 - a) History of Education
 - b) Foundations of Education
 - c) Philosophy of Education
 - d) Sociology of Education
2. Course requirements for the degree may be met by completing either one of the following two plans of study:
 - a. Plan A: Master of Education with thesis (minimum 30 s.h.)
 - 1) Required Courses (12 s.h.)
 - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - b) EDUC 0801.691 Introduction to Research in Education (3)
 - c) EDUC 0802.699 Master's thesis in Elementary Education (3)
 - d) PSYC 2001.511 Developmental Psychology (3)
 - 2) Elective Courses (18 s.h.)
 - a) After admission and prior to his/her first registration, the student must plan a program of study with his/her advisor. The program of study is designed to meet the needs and interest of the individual student. It may be changed only with consent of the advisor.
 - b) At least nine semester hours must be selected from courses numbered 500 to 699.
 - b. Plan B: Master of Education without thesis (minimum 33 s.h.)
 - 1) Required Courses (12 s.h.)
 - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - b) EDUC 0801.691 Introduction to Research in Education (3)
 - c) EDUC 0802.675 Seminar in Elementary Education (3)
 - d) PSYC 2001.511 Developmental Psychology (3)

2) Elective Courses (21 s.h.)

- a) After admission and prior to his/her first registration, the student must plan a program of study with his/her advisor. This program of study is designed to meet the needs and interests of the individual student. It may be changed only with the consent of the advisor.
- b) At least twelve semester hours must be selected from courses numbered 500 to 699.

M.ED. IN MUSIC EDUCATION

The master of education in music education program provides opportunities for students to: (1) develop individual talents and interests within the field of music education; (2) become aware of implications of trends in the field; (3) increase insights into such areas as music history/literature, theory/composition, and applied music, as well as music education; and (4) conceptualize about music and music education through lectures, seminars, individual research projects, and private instruction.

Requirements

1. Prerequisites

- a. Certification as a public school music teacher

OR

49 semester hours in undergraduate music courses.

- b. Minimum grade point average of 3.0 in music courses.

2. Interview with the graduate coordinator.

3. Course requirements for the degree may be met by completing one of two plans of study:

- a. Plan A: Master of Education in Music Education with thesis (minimum 30 s.h.), 21 of which must be at the 500-600 levels)

1) Required courses (12 s.h.)

"T" indicates course offered at Towson State University

"M" indicates course offered at Morgan State University

(consult Morgan State University Graduate Bulletin for course numbers)

- a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)

- b) T PSYC 2001.511 Developmental Psychology (3)

- c) TM MUSC 1005.595 Research Methods in Music and Music Education (3)

- d) TM MUSC 1005.501 Seminar in Current Trends in Music and Music Education (3)

2) Required course (3) (select one)

- a) T MUSC 1005.562 Seminar in Choral Music (3)

- b) M MUSC Seminar in Instrumental Music (3)

3) T MUSC 1005.697 Graduate Project in Music (3) or MUSC 1005.699 Thesis (3)

This requirement may be met in one of the following ways:

- a) T MUSC 1005.699 thesis (3)

- b) Original musical composition of major proportions and a paper concerning salient aspects of the composition level (MUSC 1005.697)

- c) Recital (MUSC 1005.697)

4) Elective courses (12 s.h.) Selected from three areas
Area 1 (3-6 s.h.)

- a) T MUSC 1005.401 Music Prior to 1600 (3)
 - b) T MUSC 1005.402 Music of the Baroque Period (3)
 - c) T MUSC 1005.403 Music of the Classical Period (3)
 - d) T MUSC 1005.404 Music of the Romantic Period (3)
 - e) T MUSC 1005.405 Contemporary Music (3)
 - f) T MUSC 1005.406 Survey of Solo Voice Literature (3)
 - g) T MUSC 1005.409 History and Literature of Guitar, Lute and Vihuela (3)
 - h) T MUSC 1005.410 Survey of Organ Literature (3)
 - i) T MUSC 1005.411 Survey of Opera (3)
 - j) T MUSC 1005.413 Symphonic Literature (3)
 - k) T MUSC 1005.415 The Concerto (3)
 - l) T MUSC 1005.417 Piano Literature (3)
 - m) T MUSC 1005.421 American Music (3)
 - n) T MUSC 1005.421 Special Topics in Music Literature (4)
 - o) M MUSC Advanced Choral Literature (3)
 - p) M MUSC Evolution of Afro-American Music (3)
 - q) M MUSC Seminar in Non-Western Music (3)
 - Area II (3-6 s.h.)
 - a) T MUSC 1005.407 Tonal Counterpoint (3)
 - b) T MUSC 1005.408 Modal Counterpoint (3)
 - c) TM MUSC 1005.435 Form and Analysis (3)
 - d) TM MUSC 1005.431 Advanced Choral and Instrumental Arranging (3)
 - e) T MUSC 1005.433 Advanced Theory (3)
 - f) T MUSC 1005.539 Music Composition (3)
 - g) T MUSC 1005.427 Jazz Arranging (3)
 - h) M MUSC Advanced Orchestration (3)
 - i) M MUSC Electronic Music (3)
 - Area III (3-6 s.h.)
 - a) T MUSC 0832.417 Choral Workshop in Elementary and Secondary School Music (2)
 - b) T MUSC 0832.419 Workshop: Aspects of String Teaching (2-6)
 - c) T MUSC 1005.420 Workshop in Music Instrument Repair (1)
 - d) TM MUSC 0832.409 Organization and Administration of Music Education (3)
 - e) TM MUSC 1005.471 through MUSC 1005.488 Private Instruction: Piano, Instrumental, Voice, Composition (1-3)
 - f) TM MUSC 1005.571 through MUSC 1004.588 Private Instruction: Piano, Instrumental, Voice, Composition (1-3)
 - g) T MUSC 104.409-410 Teaching String Instruments (3)
 - h) T MUSC 1004.424 Advanced Woodwinds (3)
 - i) T MUSC 1004.429 Jazz Improvisation (3)
 - j) M MUSC Opera Workshop (3)
 - k) M MUSC Musical Theatre (3)
 - l) M MUSC Vocal Piano Pedagogy (3)
 - m) M MUSC Piano Pedagogy (3)
 - n) M MUSC Advanced Strings (3)
 - o) M MUSC Advanced Brass (3)
 - p) M MUSC The Art of Accompanying (3)
- b. Plan B: Master of Education in Music Education without thesis (minimum 33 semester hours and a research paper in one of the seminar courses. 24 semester hours must be at the 500-600 level.

- 1) Required courses (15 s.h.)
Same as above, but does not require MISC 1005.699 or 1005.697.
- 2) Elective courses (1-8 s.h.)
Area I as Above (3-9 s.h.)
Area II as Above (3-9 s.h.)
Area III as Above (3-9 s.h.)

M.ED IN READING

The master of education degree program in reading is offered in cooperation with Morgan State University. The major objective of the program is to offer experiences which will improve the teaching of reading at all levels. The program is designed to assist the student to: (1) gain a better understanding of the learner and the learning process; (2) conduct an intensive diagnostic analysis of needs relevant to reading; (3) prescribe and/or conduct a program to overcome the reading weaknesses noted in the evaluation; (4) become a reading resource teacher; (5) fulfill a leadership role that will involve such activities as conducting in-service workshops and supervising various aspects of the reading program; (6) initiate and conduct research studies in reading and relevant areas.

Requirements

1. Course requirements (minimum 33 s.h.)
 - a. Required reading courses (12 s.h.)
 "T" indicates courses offered at Towson State University
 "M" indicates courses offered at Morgan State University
 - 1) T EDUC 0801.523 Methods and Materials in Teaching Reading in Elementary School (3)
 - 2) T EDUC 0801.521 Reading Disabilities (3)
 - 3) T EDUC 0801.625 Clinic Practicum in Reading (3)
 - 4) T EDUC 0801.629 Seminar in Reading (3)
M EDUC 0801.506 Seminar in Reading (3)
 - b. Additional required courses (12 s.h.)
 - 1) T EDUC 0801.501 Educational Ideas in Historical Perspective (3)
 - 2) T PSYC 2001.511 Developmental Psychology (3)
 - 3) T PSYC 2001.411 Tests and Measurements (3) or
T EDUC 0801.414 Educational Tests and Measurements (3)
 - 4) T PSYC 2001.540 Mental Hygiene in Education (3)
 - c. Elective Courses (9 s.h., 6 of which must be at the 500-600 levels)
 - 1) M ENGL 1501.516 Introduction to Linguistics (3)
 - 2) M ENGL 1501.590 Phonetics of American English (3)
 - 3) T PSYC 2001.605 Principles of Guidance (3)
 - 4) T EDUC 0801.417 Children's Literature (3) or T EDUC 0801.418 Literature for the Adolescent (3)
 - 5) M EDUC 0801.501 Supervision and Curriculum in Reading (3)
 - 6) T EDUC 0801.627 Evaluation of Reading Research (3)
 - 7) M EDUC 0802.508 Teaching Reading in the Secondary School (3)
 - 8) T ENGL 501.430 History of English Language (3)
 - 9) T EDUC 0801.529 Corrective Reading (3)
 - 10) T EDUC 0801.631 Diagnosis and Evaluation of Reading Disabilities (3)
 - 11) T EDUC 0802.521 Diagnosis and Prescription for Learning Difficulties (3)

- 12) T EDUC 0802.523 Diagnosis and Prescription for Learning Difficulties Advanced (3)
- 13) T EDUC 0802.513 Psycholinguistics and Reading Instruction (3)
- 14) T PSYC 2001.407 Psychology of Reading (3).

NOTE: Other elective courses may be substituted with the permission of the program coordinator.

M. ED. IN SECONDARY EDUCATION

The master of education degree program in secondary education offers the student an opportunity for in-depth study in one of three areas. The areas are education, teaching specialization, and social restoration education. The following concentrations are offered within the teaching specialization area: economic education, english, french or spanish, geography, health, mathematics, physical education, and reading.

Requirements

1. Prerequisites
 - a. Certification as a secondary public school teacher
OR
 - b. Courses in the following areas:
 - 1) Educational Psychology or Human Growth and Development
 - 2) Principles and Methods in Secondary Education
 - 3) Three hours from:
 - a) History of Education
 - b) Foundations of Education
 - c) Philosophy of Education
 - c. For concentrations in the teaching specialization area:
 - 1) Economic Education
 - a) Major or minor in economics education or the equivalent in related courses.
 - b) Approval by the graduate advisor in economics education
 - 2) English

Major in English, or a minimum of 24 semester hours of English courses. At least 12 semester hours must be in upper-division English courses.
 - 3) Geography

Major or minor in geography, or the equivalent in related courses and/or professional experience.
 - 4) Health
 - a) Major in health education or health science, or a minimum of 24 semester hours of course work in health education and related sciences.
 - 5) Mathematics

Major or minor in mathematics, or the equivalent in related courses.
 - 6) French or Spanish
 - a) Major in French or Spanish or a minimum of 18 semester hours of course work in French or Spanish. At least 12 semester hours must be upper division courses.
 - 7) Physical Education
 - a) A minimum of 24 semester hours in physical education
 - b) Approval by a screening committee composed of graduate faculty in physical education.

2. Course requirements for the degree:

a. Education

Thesis plan (minimum 30 s.h.)

1) Required courses (15 s.h.)

Twelve semester hours in education:

EDUC 0801.501 Educational Ideas in Historical Perspective (3)

EDUC 0803.641 Curriculum Development in the Secondary School (3)

EDUC 0801.691 Introduction to Research in Education (3)

EDUC 0803.699 Master's Thesis in Secondary Education (3)

Three semester hours in psychology:

PSYC 2001.511 Developmental Psychology (3)

2) Elective courses (15 s.h.). At least 6 s.h. must be selected from courses numbered 500 to 699. Educational electives will be planned in terms of the needs and goals of the individual student and must be approved by the advisor.

Category A—9 s.h. in education

Category B—6 s.h. in departments other than education (except with the approval of the program coordinator)

Non-thesis plan (minimum 33 s.h.)

3) Required courses (15 s.h.)

Twelve semester hours in education

EDUC 0801.501 Educational Ideas in Historical Perspective (3)

EDUC 0803.641 Curriculum Development in the Secondary School (3)

EDUC 0801.691 Introduction to Research in Education (3)

EDUC 0803.681 Seminar in Secondary Education (3)

Three semester hours in psychology

PSYC 2001.511 Developmental Psychology (3)

4) Elective courses (18 s.h.) At least 9 s.h. must be selected from courses numbered 500 to 699. Educational electives will be planned in terms of the needs and goals of the individual student and must be approved by the advisor.

Category A—9 s.h. in education

Category B—6 s.h. in departments other than education (except with the approval of the program coordinator)

Category C—3 s.h. from any department, including education

b. Teaching specialization

Thesis plan (minimum 33 s.h.)

1) Required courses are identical to those in the Education area (Thesis Plan). Students in the physical education concentration may substitute EDEC 0835.509, Psychology of Motor Learning, for PSYC 2001.511, Developmental Psychology.

2) Elective courses (18 s.h.). Must include a minimum of 9 hr. at the 500 to 600 level.

Non-thesis plan (minimum 36 s.h.)

3) Required courses are identical to those in the education area (non-thesis plan). Students in the physical education concentration may substitute ECED 0835.509, Psychology of Motor Learning, for PSYC 2001.511 Developmental Psychology.

4) Elective Courses (21 s.h.). Must include a minimum of 12 hr. at the 500 to 600 level. At least 3 s.h. must be in education.

c. Social Restoration Education

Non-thesis only (minimum 36 s.h. 27 of which must be at the 500-600 levels)

1) Required courses (24-27 s.h.)

EDUC 0801.501 Educational Ideas in Historical Perspective (3)

EDUC 0801.691 Introduction to Research in Education (3)

EDUC 0802.521 Diagnosis and Prescription for Learning Difficulties (3)

EDUC 0803.647 The Teaching Process: Secondary (3)

EDUC 0803.681 Seminar in Secondary Education (3)

PSYC 2001.540 Mental Hygiene in Education (3)

EDUC 0803.641 Curriculum Development in the Secondary School (3)

EDUC 0801.689 Internship in Education (3-6 s.h. depending upon teaching experience). The internship may be waived and other credits substituted if the student has two years of successful teaching experience in an institution of social restoration.

2) Elective courses (12 s.h.)

One course from:

EDUC 0801.529 Corrective Reading (3)

EDUC 0803.360 Teaching Reading In Secondary School (3)

EDUC 0803.461 Teaching Reading in Secondary School Content Areas (3)

Another graduate reading course may be approved to substitute for one of the above.

One course from:

SOCI 2208.355 Juvenile Delinquency (3)

SOCI 2208.353 Criminology (3)

SOCI 2208.370 Topics in Sociology: Corrections (3)

One course from:

PSYC 2001.425 Introduction to the Helping Relationship (3)

PSYC 3001.421 Application of Behavioral Principles to Family and Classroom (3)

PSYC 2001.570 Referral Sources for the School Age Child (3)

PSYC 2001.321 Adolescent Psychology (3)



SPECIALIST CERTIFICATES

Post-baccalaureate students in early childhood education, elementary education or secondary education may select a 15 s.h. component of the program which culminates in the awarding of a specialist certificate in one of the following areas:

Early Childhood Education

Children With Special Needs

Elementary Education

Administration and Supervision of Elementary and Middle Schools

Curriculum Development

Educating the Gifted

The Exceptional Child in the Elementary School

Reading

Administration and Supervision of Elementary and Middle Schools

Secondary Education

Adult Education

The Community College

Educational Evaluation

Secondary School Reading

Secondary Supervision/Administration

Secondary Teaching Strategies and Classroom Management

Teaching in the Middle School

The student desiring to work toward a specialist certificate must enroll in the appropriate graduate program and declare his/her intent to complete this component of the program by completing a "specialist certificate enrollment form." Information regarding the specialist certificate component may be obtained by calling or writing to the graduate office (301-321-2500).

COOPERATIVE M.ED. PROGRAMS WITH AN EMPHASIS IN JEWISH STUDIES

Towson State University, in cooperation with the Baltimore Hebrew College, offers a Jewish studies specialization within the early childhood education and elementary education M.Ed. programs. The student takes 12 semester hours of required courses at the Baltimore Hebrew College and 24 semester hours in the appropriate departmental program at Towson State University. Further information may be obtained by calling the graduate office at Towson State University (301-321-2500) or the graduate office at the Baltimore Hebrew College (301-466-7900 x312).

COURSE DESCRIPTIONS

Descriptions of 500-level and 600-level courses as well as titles for 300-level and 400-level courses that carry graduate credit are listed in this section. Descriptions for 300-level and 400-level courses may be found in the 1982 Towson State University Catalog. Consult the course schedules to determine the courses offered in a particular session.

Two-semester courses, the numbers of which are separated by a hyphen, are to be taken in sequence.

ART

Chairperson: James W. Flood

Graduate Departmental Coordinator, Art Education Program: Stanley Pollack
ART COURSES (1001 Art and 0831 Art Education)

Upper Division—Undergraduate and Graduate

- 1001.314 THE ART OF ENAMELING ON METAL (3)
- 1001.318 JEWELRY (3)
- 1001.319 METALSMITHING (3)
- 1001.320 DESIGN FOR VISUAL COMMUNICATION II (3)
- 1001.321 FIBER CONSTRUCTION (3)
- 1001.323 PICASSO TO THE PRESENT (3)
- 1001.324 HENRY MOORE TO THE PRESENT (3)
- 1001.325 FRANK LLOYD WRIGHT TO THE PRESENT (3)
- 1001.326 FABRIC DESIGN: DYEING (3)
- 1001.327 FABRIC DESIGN: PRINTING (3)
- 1001.328 WEAVING I (3)
- 1001.334 PHOTOGRAPHY II (3)
- 1001.335 COLOR PHOTOGRAPHY I (3)
- 1001.339 METAL SCULPTURE I (3)
- 1001.340 SCULPTURE: MODELING STUDIO II (3)
- 1001.342 SCULPTURE: CARVING STUDIO II (3)
- 1001.343 GREEK AND ROMAN ART (3)
- 1001.344 BYZANTINE TO GOTHIC ART (3)
- 1001.345 ITALIAN RENAISSANCE ART: 15th-16th CENTURIES (3)
- 1001.346 THE BAROQUE AND 18th CENTURY (3)
- 1001.373 ILLUSTRATION (3)
- 1001.405 ART PRINCIPLES AND CRITICISM (3)
- 1001.413 ENAMELING II (3)
- 1001.414 ADVANCED STUDIO (2-3, 2-3, 2-3)
- .415
- .416
- 1001.418 JEWELRY II (3)
- 1001.428 WEAVING II (3)
- 1001.431 ADVANCED CERAMICS (3)
- 1001.432 CERAMIC RAW MATERIALS (3)
- 1001.433 ADVANCED PAINTING: OILS (3)
- 1001.434 ADVANCED PAINTING: WATERCOLOR (3)
- 1001.439 METAL SCULPTURE II (3)
- 1001.440 SCULPTURE: MODELING STUDIO III (3)
- 1001.442 SCULPTURE: CARVING STUDIO III (3)
- 1001.445 RELIEF PROCESS II (3)
- 1001.447 SCREEN PROCESS II (3)
- 1001.449 INTAGLIO PROCESS I (3)
- 1001.450 INTAGLIO PROCESS II (3)
- 1001.451 LITHOGRAPHIC PROCESS I (3)
- 1001.453 LITHOGRAPHIC PROCESS II (3)
- 1001.461 INTRODUCTION TO ART THERAPY I (3)
- 1001.462 INTRODUCTION TO ART THERAPY II (3)
- 1001.485 SEMINAR IN ART HISTORY (3)
- 1001.494 TRAVEL & STUDY ABROAD (3-6)

ART EDUCATION COURSES (0831)

0831.471 ADVANCED ART EDUCATION (3)

Graduate Division

1001.511 DRAWING (3) Advanced problems in expressive draftsmanship. Prerequisite: 1001.211 or consent of instructor.

1001.514-515-516 GRADUATE STUDIO (2-3, 2-3, 2-3) Independent work for graduate students in field of special interest. Prerequisite: all other courses in particular field completed, or written consent of instructor. The student must make arrangements in advance of registration with the instructor of his/her choice.

1001.529 OIL PAINTING (3) For students with previous experience in painting; consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite: 1001.329 or equivalent.

1001.530 WATERCOLOR (3) Consideration of current trends and outstanding painters and styles. Studio work, museum visits, lectures. Prerequisite: 1001.330 or consent of instructor.

1001.531 CERAMICS (3) Advanced work in ceramic design and techniques of glazes, clay bodies, firing. Prerequisite 1001.331 or consent of instructor.

1001.540 GRADUATE SCULPTURE I (3) Both directed and independent studio problems for students who wish to continue in selected sculptural areas. Prerequisites: 1001.340 or 1001.241 or 1001.339 or 1001.342 or any 400-level course, or consent of instructor.

1001.541 GRADUATE SCULPTURE II (3) Continued studio problems in selected sculptural areas. Prerequisites: 1001.540 or consent of instructor.

1001.551 GRAPHICS: INTAGLIO, RELIEF (3) Studio work of artists with a basic knowledge of intaglio and/or relief processes. Aspects of mixed media explored. Prerequisite 1001.349 or 1001.449 or equivalent.

1001.553 GRAPHICS: LITHOGRAPHY, SERIGRAPHY (3) Studio work for artists with a basic knowledge of lithography and/or serigraphy. Prerequisite: 1001.347 or 1001.451 or equivalent.

1001.698 GRADUATE PROJECT IN ART (3) If this is approved, student will pursue his/her project in an exhibition of his/her work plus a paper defining the project's scope and philosophy. Prerequisite: consent of department chairperson.

1001.699 THESIS (3) A carefully executed research and accurate recording of a specific topic in art, art education, art history or other approved area. Includes an outline of the proposed thesis submitted for inspection and approval by the art department graduate advisor. Prerequisite 1001.697.

ART EDUCATION COURSES (0831)

0831.595 RESEARCH IN ART AND ART EDUCATION (3) Methods of research applicable to art and art education. Examination of recent research in this field. Preparation of research outline in area of choice. Prerequisite: consent of instructor.

0831.697 SEMINAR IN ART EDUCATION (3) Investigation of problems and theories in art education and related fields. To be taken as final course in master's program. Prerequisites: 0831.595 and consent of instructor.

BIOLOGICAL SCIENCES

Chairperson: Caryl Lewis

Graduate Departmental Coordinator: Biology Program(Donald C. Forester

BIOLOGY COURSES (0401)

UPPER DIVISION—UNDERGRADUATE AND GRADUATE

- 0401.002 DISSECTION OF THE UPPER EXTREMITY (2) Minimester
- *0401.301 FIELD NATURAL SCIENCE (4)
- *0401.303 LIFE SCIENCES FOR THE ELEMENTARY TEACHER (3)
- 0401.305 ELECTRON MICROSCOPY (4)
- 0401.310 ENVIRONMENTAL CONSERVATION (4)
- +0401.315 MEDICAL MICROBIOLOGY (4)
- +0401.318 MICROBIOLOGY (4)
- 0401.322 MICROTÉCHNIQUE (4)
- 0401.331 FIELD AND SYSTEMATIC BOTANY (4)
- 0401.341 PHYCOLOGY (4)
- 0401.345 MYCOLOGY (4)
- 0401.351 FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4)
- 0401.353 INVERTEBRATE ZOOLOGY (4)
- 0401.360 HISTOLOGY (3)
- 0401.367 GENERAL ENDOCRINOLOGY (3)
- 0401.368 EXPERIMENTAL ENDOCRINOLOGY (2)
- 0401.371 ANIMAL BEHAVIOR (4)
- *0401.381 BIOLOGICAL LITERATURE (2)
- *0401.383 HISTORY OF BIOLOGICAL CONCEPTS (3)
- *0401.385 SELECTED GENERAL PRINCIPLES IN BIOLOGY (3)
- *0401.387 BIOLOGY IN SOCIETY (3)
- *0401.395 COURSE RESEARCH (1)
- 0401.401 GENETICS (4)
- 0401.402 GENERAL ECOLOGY (4)
- 0401.403 ADVANCED GENETICS (3)
- 0401.404 ECOLOGICAL TECHNIQUES (3)
- 0401.406 LIMNOLOGY(4)
- 0401.408 CELL BIOLOGY (4)
- 0401.411 WILDLIFE BIOLOGY (4)
- 0401.413 EVOLUTION (3)
- 0401.417 MICROBIAL ECOLOGY (4)
- 0401.421 IMMUNOLOGY (3)
- 0401.429 BIOANALYSIS (3)
- 0401.431 HORTICULTURE (4)
- 0401.432 VASCULAR PLANT TAXONOMY (4)
- 0401.433 PLANT SPECIATION (3)
- 0401.435 PLANT ECOLOGY (4)
- 0401.436 PLANT PHYSIOLOGY (4)
- 0401.439 PLANT ANATOMY (4)
- 0401.441 PATHOLOGY (4)
- 0401.456 ORNITHOLOGY (4)
- 0401.458 MAMMALOLOGY (4)
- 0401.461 ENTOMOLOGY (4)

* Not applicable to M.S. in Biology

+ Only 4 semester hours from these courses may be included in the M.S. in Biology

- 0401.463 ANIMAL EMBRYOLOGY (4)
- 0401.465 MAMMALIAN PHYSIOLOGY (4)
- 0401.467 HERPETOLOGY (4)
- 0401.469 COMPARATIVE ANIMAL PHYSIOLOGY (4)
- 0401.481 DIRECTED READINGS IN BIOLOGY (1-3)
- 0401.486 SEMINAR: SPECIAL TOPICS IN BIOLOGY (1-2)
- 0401.491 INDEPENDENT RESEARCH IN BIOLOGY (2-3)
- 0401.494 TRAVEL STUDY (1-3)
- 0401.495 COURSE RESEARCH (1)

Graduate Division

0401.501 CURRENT TOPICS IN BIOLOGY (3) Discussion of current topics in a specific area of biology. The area will vary each time the course is offered. A maximum of three semester hours allowable for MS degree in biology. Prerequisite: a suitable background in the area emphasized.

0401.505 PROBLEMS IN BIOLOGY (1-3) Laboratory or literature research on a particular problem of interest to the student that does not pertain to his thesis. Regular conferences with the instructor are required. A preliminary paper is submitted for discussion, suggestions and corrections. The final paper should incorporate the necessary changes. Credits to be arranged by consultation with the instructor. A maximum of three credits allowable for MS degree in biology.

0401.507 PHYSIOLOGICAL ANIMAL ECOLOGY (4) A study of the physiological responses of animals to varying ecological conditions. Prerequisite: 0401.304, 0401.465.

0401.509 AQUATIC BIOLOGY (4) A study of freshwater and brackish water plants and animals of the local area with a field emphasis. Several representative habitats are considered comparatively, using various methods of collecting and identifying species of the fauna and flora. Prerequisite: 0401.331, 0401.351, 0401.406, 0401.353 or consent of the instructor.

0401.511 BIOCHEMICAL GENETICS (3) Study of the biochemical basis of genetic phenomena, including duplication, expression, organization, and recombination of DNA. Prerequisites: 0401.401 and 1905.350 or equivalents or consent of instructor.

0401.521 CELL REGULATION (3) A study of the regulation of cellular activities. Topics covered will include regulation of enzyme synthesis and enzyme activity; membrane bound enzymes and carriers; activities regulated by cell surface receptors; and the experimental techniques used to obtain current knowledge in these areas. Prerequisites: 0401.408; 1905.350 or equivalent.

0401.532 PLANT BIOSYSTEMATICS (4) A study of the techniques employed in the analysis of vascular plant life histories and species variation. Local plant populations and species are used in these studies. Prerequisite: 0401.331; 0401.432 recommended.

0401.533 PLANT MORPHOGENESIS (4) The morphological growth and development of plants in response to natural and artificial stimuli at the cellular, tissue, and organ level. Prerequisite: 0401.439.

0401.535 PHYSIOLOGICAL PLANT ECOLOGY (4) Physiological interactions between plants and environments at the organism level. Examination of

environmental factors including light, water, and nutrients and biological factors including competition and phytotoxins as they affect the physiology and distribution of plants. Prerequisite: 0401.402; 0401.436 recommended, or consent of instructor.

0401.541 PRINCIPLES OF PHYSICAL BIOCHEMISTRY (3) Introduction to physical biochemistry with particular emphasis upon the application of chemical thermodynamics to bioenergetics; the application of chemical kinetics to enzyme kinetics and other time-dependent biochemical phenomena; transport phenomena with emphasis upon membrane transport and upon centrifugation and an introductory to X-ray crystallography. Prerequisites: 1905.350 or 1905.353 and 1701.273 or equivalent; 1701.274 recommended.

0401.551 OSMOREGULATION (3) This course is a study of the mechanisms of salt and water regulations in animals. Specific structural and functional modifications in representative species which permit survival in osmotically stressful environments will be emphasized. Prerequisites: 1905.102 and 0401.109 or the equivalents.

0401.553 BIOLOGY OF FRESHWATER INVERTEBRATES (4) Advanced study of invertebrates including classification, adaptive strategies and various ecological parameters influencing distribution of local fauna in freshwaters. Parasitic forms are excluded. Prerequisite: 0401.353 and 0401.461 or consent of instructor. Spring, even numbered years.

0401.561 INSECT ECOLOGY (4) A study of insect communities and populations, emphasizing conditions of the environment that favor abundance of insects in various habitats. Field work involves examination of various aquatic and terrestrial habitats. Prerequisite: 0401.461; 0401.353 recommended.

0401.581 RECENT ADVANCES IN BIOLOGY (4) A study of current factual and technological advances in the five following areas: botany, zoology, ecology, genetics and evolution, cellular and molecular biology. Completion of this course with a grade of "B" or better fulfills the department advancement to degree candidacy examination requirement. Prerequisite: 9 graduate semester hours in biology.

0401.601 NON-THESIS LABORATORY RESEARCH (3) An individual laboratory research project is conducted with the guidance of a graduate faculty advisor after approval of the research proposal by the research committee. Credit is granted after the paper has been successfully defended to the student's research committee. Prerequisite: advancement to degree candidacy.

0401.603 NON-THESIS LIBRARY RESEARCH (3) A professional paper is prepared with the guidance of a graduate faculty advisor after approval of the topic by a research committee. The paper is based upon an extensive literature survey. The student can expect to make several revisions before an acceptable paper is achieved. Credit is granted upon successful defense of the paper to the student's research committee. Prerequisite: advancement to degree candidacy.

0401.697 GRADUATE SEMINAR (1) Student reports and discussion dealing with biological research. An outline of the seminar and a bibliography are required. A maximum of one credit is allowable for the MS degree in biology.

0401.699 THESIS (6) An original investigation to be pursued under the direction of one or more faculty members. Credit is granted only after the thesis has been accepted by the student's thesis committee.

BUSINESS ADMINISTRATION

Chairperson: William R. Brown

BUSINESS ADMINISTRATION COURSES (0506)

Upper Division—Undergraduate and Graduate

- 0506.325 BUSINESS LAW I (3)
- 0506.331 FINANCIAL MANAGEMENT (3)
- 0506.332 ADVANCED CORPORATE FINANCE (3)
- 0506.341 MARKETING MANAGEMENT (3)
- 0506.361 MANAGEMENT THEORY (3)
- 0506.363 QUANTITATIVE METHODS FOR BUSINESS (3)
- 0506.381 HUMAN RESOURCE MANAGEMENT (3)
- 0506.421 INTERNATIONAL TRANSPORTATION (3)
- 0506.435 INTERNATIONAL FINANCE (3)
- 0506.441 MARKETING RESEARCH (3)
- 0506.442 CASES IN MARKETING MANAGEMENT (3)
- 0506.445 INTERNATIONAL MARKETING (3)
- 0506.451 INDUSTRIAL RELATIONS (3)
- 0506.452 GRIEVANCES AND ARBITRATION (3)
- 0506.455 SMALL BUSINESS DEVELOPMENT (3)
- 0506.457 PUBLIC SECTOR COLLECTIVE BARGAINING (3)
- 0506.461 ANALYSIS OF INDUSTRIAL ORGANIZATIONS (3)
- 0506.463 SEMINAR IN LEADERSHIP (3)
- 0506.481 ADVANCED BUSINESS POLICY WORKSHOP (3)

Graduate Division

0506.570-79 SPECIAL TOPICS IN BUSINESS (3) Course content varies with each topic. Course is designed to provide an in-depth study of contemporary business issues as they affect current management practices. Prerequisites: consent of instructor. Special permit only.

0506.595 INDEPENDENT STUDY IN BUSINESS ADMINISTRATION (3) Preparation of a comprehensive paper dealing with specific topics in the general areas of finance, management, personnel, marketing, or accounting. Extensive readings form the basis for original study in the specifically selected area of investigation by the graduate student. Prerequisites: 9 semester hours of graduate business credits; special permit.

CHEMISTRY

Chairperson: Alan S. Wingrove

CHEMISTRY COURSES (1905)

Upper Division—Undergraduate and Graduate

- 1905.341 PHYSICAL CHEMISTRY—THERMODYNAMICS (3)
- 1905.342 PHYSICAL CHEMISTRY—STRUCTURE AND KINETICS (3)
- 1905.343 PHYSICAL CHEMISTRY LABORATORY I (1)
- 1905.344 PHYSICAL CHEMISTRY LABORATORY II (1)
- 1905.350 PRINCIPLES OF BIOCHEMISTRY (5)
- 1905.353 BIOCHEMISTRY (5)
- 1905.361 CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3)

1905.363	CHEMISTRY OF DANGEROUS DRUGS (3)
1905.365	POLYMER CHEMISTRY (3)
1905.367	FORENSIC CHEMISTRY (3)
1905.369	ORGANOMETALLIC CHEMISTRY (3)
1905.371	SPECTROMETRIC METHODS IN CHEMISTRY (4)
1905.383	MODERN CHEMISTRY: PRINCIPLES AND APPLICATIONS I (3)
1905.384	MODERN CHEMISTRY: PRINCIPLES AND APPLICATIONS II (3)
1905.391- .394	SPECIAL PROBLEMS IN CHEMISTRY (1-3)
1905.401	SEMINAR IN CHEMISTRY (1)
1905.411	INSTRUMENTAL METHODS OF ANALYSIS (5)
1905.412	ADVANCED ANALYTICAL CHEMISTRY (3)
1905.422	INORGANIC CHEMISTRY (4)
1905.431	ADVANCED ORGANIC CHEMISTRY LABORATORY (3)
1905.432	ADVANCED ORGANIC CHEMISTRY (3)
1905.441	ADVANCED PHYSICAL CHEMISTRY (3)
1905.452	ADVANCED BIOCHEMISTRY (3)
1905.453	ADVANCED BIOCHEMISTRY LABORATORY (2)
1905.491- .492- .493	INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3)

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: Bill L. Wallace

Graduate Department Coordinator: Speech-Language Pathology and Audiology

Program: Charles Lonegan

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY COURSES (1220)

Upper Division—Undergraduate and Graduate

1220.300	ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISMS (3)
1220.301	HEARING AND SPEECH SCIENCE (3)
1220.302	SPEECH AND LANGUAGE PATHOLOGY I—ARTICULATION (3)
1220.304	SPEECH AND LANGUAGE PATHOLOGY II—LANGUAGE (3)
1220.305	STUTTERING—ETIOLOGY AND THERAPY (3)
1220.306	SPEECH AND LANGUAGE PATHOLOGY III—ORGANIC DISORDERS (3)
1220.321	INTRODUCTION TO AUDIOLOGY (3)
1220.404	PROFESSIONAL PROGRAM, PROBLEMS AND RELATIONSHIPS (3)
1220.431	IDENTIFICATION AUDIOMETRY (3)
1220.470- .479	SPECIAL TOPICS SEMINAR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)
1220.481	DIALECTS OF ETHNIC GROUPS IN AMERICAN SOCIETY (3)
1220.486	CLINICAL OBSERVATION AND TECHNIQUES (3)
1220.489	CLINICAL COUNSELING IN AUDIOLOGY AND SPEECH PATHOLOGY (3)
1220.498	PROCTORING IN SPEECH AND LANGUAGE PATHOLOGY AND AUDIOLOGY (3)

Graduate Division

1220.501 SEMINAR IN LANGUAGE DISORDERS OF CHILDREN (3)

Investigation of mental retardation, emotional disturbance and hearing loss in children in terms of speech and language disorders. Prerequisites: 1220.105, 1220.302.

1220.505 NEUROPATHOLOGIES OF SPEECH (3) Review of basic neuroanatomy and neurophysiology relevant to communication impairment resulting from brain injury. Symptomatology, evaluation procedures and therapeutic techniques relevant to the management of aphasia, apraxia, and dysarthria. Prerequisites: 1220.306 and 1220.487.

1220.507 DIAGNOSTIC METHODS IN SPEECH PATHOLOGY (3) Standardized and non-standardized techniques for testing the speech, language and general intellectual functioning of children and adults. Practicum experience in speech evaluations and report writing. Prerequisites: 1220.485, 1220.505.

1220.511 SEMINAR IN APPLICATION OF LINGUISTICS TO SPEECH PATHOLOGY (3) Investigation of traditional and contemporary research in the area of psycholinguistics and generative grammar. Application of this to diagnosis and management of those with language disorders. Prerequisite: 1220.105.

1220.512 AURAL HABILITATION/REHABILITATION (3) Theories, objectives and techniques for the teaching of speech reading, speech conservation and auditory training. Observation and practice will be required. Prerequisite: 1220.321.

1220.513 RESEARCH DESIGN SEMINAR IN SPEECH/LANGUAGE PATHOLOGY AND AUDIOLOGY (1) Discussion of research methods, techniques and needs in speech pathology and audiology. Reading and understanding professional journal articles. Prerequisite: consent of instructor.

1220.515 VOICE DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND RESEARCH (3) Investigation of etiology diagnosis and treatment of organic and functional disorders of voice in children and adults. Investigate the scientific literature dealing with voice disorders in children and adults. Prerequisite: graduate student standing.

1220.517 ARTICULATION DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND RESEARCH (3) Investigation of current diagnostic procedures and treatment programs for articulation disorders in children and adults. Investigation of scientific literature dealing with articulatory disorders of a functional nature. Prerequisite: graduate student standing.

1220.518 EXPERIMENTAL PHONETICS (3) An advanced course in the study of phonetic science. Concerned with the application of experimental methods to study and research in voice and phonetics, especially spectrographic analysis. includes critical review of research literature in scientific phonetics. Prerequisites: 1506.310 or consent of instructor.

1220.521 SEMINAR IN DIAGNOSIS OF DISORDERS OF THE AUDITORY SYSTEM (3) This advanced course is designed to provide graduate students in Audiology & Speech Pathology with the history, rationale and procedures of audiological delineation of the disorders of the auditory system. Prerequisite: consent of instructor.

1220.531 SEMINAR IN PSYCHOACOUSTIC INSTRUMENTATION AND CALIBRATION (3) This advanced course is intended to provide graduate

students in audiology and speech pathology with an overview of the devices which form a core of equipment for auditory investigation and some of the principles and problems which accompany their use. Prerequisite: consent of instructor.

1220.541 AUDIOLOGY SEMINAR—PSYCHOACOUSTICS (3) This advanced course is intended to provide graduate students in audiology with an opportunity to pursue in-depth studies in psychoacoustics. Prerequisite: consent of instructor.

1220.542 AUDIOLOGY SEMINAR—BIOACOUSTICS (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in the bioacoustics. Prerequisite: consent of instructor.

1220.543 AUDIOLOGY SEMINAR—NEUROPHYSIOLOGY OF HEARING (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in the neurophysiology of audition. Prerequisite: consent of instructor.

1220.544 AUDIOLOGY SEMINAR—CURRENT TOPICS IN AUDITION (3) This advanced course is intended to provide extensive information in the area of noise and its effect on hearing, industrial, community, and environmental aspects will be covered including hearing conservation programs. Prerequisite: Consent of instructor.

1220.551 INDUSTRIAL AND ENVIRONMENTAL AUDIOLOGY (3) This course is designed to provide extensive information in the area of noise and its effect on hearing. Industrial, community, and environmental aspects will be covered including hearing conservation programs. Prerequisite: consent of instructor.

1220.553 AUDIOLOGIC MANAGEMENT OF CHILDREN (3) Principles and techniques for identifying and evaluating hearing impaired children; consideration of multiple handicaps; demonstration and practice. Prerequisites: 1220.341 or consent of instructor.

1220.555 HEARING AID SELECTION AND SPEECH AUDIOMETRY (3) Rationale, methodology and use of speech signals for evaluation of the auditory system. Electroacoustic characteristics of various amplifying systems utilized with the hearing impaired. Consideration of principles and methods of hearing and selection and usage with an infant through geriatric population. Prerequisite: consent of instructor.

1220.601 SEMINAR IN LANGUAGE AND COGNITION (3) This course deals with the strategies and processes by which children learn language. The theory of cognitive development as it relates to recent views of language acquisition will be discussed. Prerequisite: 1220.105 and/or consent of the instructor.

1220.602 COMMUNICATION DISORDERS IN MENTAL RETARDATION SEMINAR (3) Nature, etiology, development, evaluation and habilitation of individuals diagnosed as mentally retarded with emphasis in the associated speech-language and hearing disorders and their treatment. Prerequisite: instructor approval.

1220.645 ADVANCED CLINICAL PRACTICUM (1) Experience in the College Clinic as well as externship in public schools, hospital clinics, and rehabilitation settings with the speech-defective. Introduction to the supervision of undergraduate trainees. Prerequisite: 1220.487 and/or professional experience.

1220.695 GRADUATE RESEARCH PAPER IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Preparation of extensive paper dealing with a current area of research in the field or with the results of a clinical experience. Prerequisite: consent of department.

1220.696 INDEPENDENT STUDY IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Preparation of an extensive paper dealing with professional clinical experiences. Discussion of techniques, innovations, methods employed and recommendations for improvement. Prerequisite: professional experience.

1220.697 DIRECTED READINGS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Directed reading in selected areas of speech, language pathology and audiology in order to provide the graduate student an opportunity for a comprehensive coverage of a specially selected area within the broader area of communication disorders to meet special needs of students. Prerequisite: graduate standing and invitation of department.



ECONOMICS

Chairperson: Harvey Paul

ECONOMICS COURSES (2204)

Upper Division—Undergraduate and Graduate

- 2204.309 INTERMEDIATE PRICE THEORY (3)
- 2204.323 MONEY AND BANKING (3)
- 2204.335 MACROECONOMIC THEORY (3)
- 2204.401 HISTORY OF ECONOMIC THOUGHT (3)
- 2204.485 SEMINAR IN ECONOMIC ISSUES (3)
- 2204.493 WORKSHOP ON ECONOMIC EDUCATION (3)
- 2204.495 INDEPENDENT STUDY (1-3)
- 2204.497 PRACTICUM IN ECONOMICS (3)

Graduate Division

2204.590 INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of economics. Prerequisite: Permission of instructor.

2204.593 ECONOMIC EDUCATION RESEARCH AND METHODS (3) This course is designed to introduce students to methodology and research in contemporary economic education. The course will include an overview of materials and teaching practices recently developed for economics in the secondary and elementary school. A contemporary issues approach to economic introduction is employed. Prerequisites: 2204.301, 2204.309, 2204.323, and 2204.335.

2204.595 SEMINAR IN ECONOMICS (3) Research and writing of papers on an economics issue selected by the instructor. Prerequisite: 2204.309, 2204.323 and 2204.335.

2204.597 INTERNSHIP IN ECONOMICS (3) Supervised work experience designed to provide the graduate student an understanding of the economic system and the practical application of economic principles. Prerequisites: graduate student in economics or economic education, 12 credits completed, and consent of practicum coordinator.

EDUCATION

Dean of Education: James B. Binko

Associate Dean of Education: Frances T. Bond

Chairperson of Early Childhood Education: Marilyn Lewis

Chairperson of Elementary Education: C. Keith Martin

Chairperson of Secondary Education and Foundations of Education: Geneva Ely-Flickinger

Chairperson of General Education: Royce W. Van Norman

Director of Reading: Joseph P. Gutkoska

Director of Laboratory Experience: James C. Lawlor

GRADUATE DEPARTMENTAL COORDINATORS

Secondary Education Program: Margaret A. Kiley

Elementary Education Program: Joseph Suhorsky

Reading Program: Joseph P. Gutkoska

Early Childhood Education Program: Theodora Kimsey

EARLY CHILDHOOD EDUCATION COURSES (0823)

Upper Division—Undergraduate and Graduate

- 0823.403 THE CURRICULUM IN PRIMARY EDUCATION (3)
0823.411 PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3)
0823.415 THE DAY CARE CENTER (3)
0823.417 EARLY IDENTIFICATION OF LEARNING DISABILITIES (3)
0823.419 MEASUREMENT AND EVALUATION IN EARLY CHILDHOOD EDUCATION (3)
0823.421 PROBLEMS IN EARLY CHILDHOOD EDUCATION (3)
0823.423 LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)
0823.425 THE YOUNG BLACK CHILD IN A MULTICULTURAL SOCIETY (3)
0823.470-489 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3)
0823.494 TRAVEL AND STUDY—EARLY CHILDHOOD EDUCATION (1-6)
0823.495 INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD EDUCATION (1-4)
0823.496 DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4)

Graduate Division

0823.509 GROWTH AND DEVELOPMENT OF YOUNG CHILDREN (3)
Study of findings of current research in growth and development of young children: methods of studying and evaluating behavior: implications of case study data for curriculum improvement.

0823.513 PROGRAMS FOR INFANTS AND CHILDREN UNDER THREE (3)
Nature of the infant and the very young child, types of programs providing care of infants and children under three, focus on development needs. Organization, Curriculum, and methods of working with parents and children. Examination of alternative programs. Observation, Utilization of resource persons from allied agencies. Prerequisites: 2001.511 and/or 0823.509.

0823.515 ADMINISTRATION AND SUPERVISION OF PROGRAMS FOR YOUNG CHILDREN (3)
Theory and practice of operating various programs for young children, such as infant centers, day care centers, nursery schools, and "head-start" programs. The director's role as related to such topics as: staff selection and training, curriculum planning, financing, liaison with agencies, community relations, evaluation and supervision of staff and programs. Prerequisite: 6 semester hours in early childhood education. 0823.415 or its equivalent and experience working with children under 8 years.

0823.517 ADVANCED LEARNING DISABILITIES (3)
Presents recent changes in theory and remediation; neuropsychology and neurophysiology of learning as applied to specific programs of remediations. A practical-clinical approach utilizing case studies, media presentation, group projects, lectures. Spring semester. Prerequisites: 6 semester hours psychology and 6 semester hours ECE.

0823.521 READING IN EARLY CHILDHOOD EDUCATION—ADVANCED (3)
Emphasis on contemporary issues: advanced interpretative and critical

evaluations of research in reading instruction in light of basic needs developmental levels, and individual differences in young children. Prerequisites: an undergraduate course in reading.

0823.531 THE GIFTED AND TALENTED YOUNG CHILD (3) The nature of gifted and talented young children; identification, research studies; programs and curriculum.

0823.537 MAINSTREAMING FOR THE CLASSROOM TEACHER (3) The background of and legal basis for mainstreaming. Emphasis is on the regular classroom situation as it relates to the learning disabled, the mildly retarded, and the gifted. Characteristics, methods, and materials will be emphasized in the development of IEP's (Individualized Educational Program). Prerequisites: student teaching or teaching experience or consent of instructor.

0823.553 PERCEPTUAL AND COGNITIVE DEVELOPMENT OF YOUNG CHILDREN (3) Survey of significant research affecting the theory and programs of education for children aged three to eight years. Prerequisites: and/or 0823.509, 2001.511 and consent of department of early childhood education.

0823.570-572 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3) In-depth study of a selected topic in education. The specific requirement and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisites: varies with each topic.

0823.573 SEMINAR IN EARLY CHILDHOOD EDUCATION (3) Seminar approach to current practices and trends in curriculum; materials, methods, and organization of educational programs for children aged from birth through eight years of age. A seminar paper is required. Prerequisites: 9 semester hours of graduate work in early childhood education and 0801.691.

0823.599 MASTER'S THESIS IN EARLY CHILDHOOD EDUCATION (3)

0823.647 THE TEACHING PROCESS: EARLY CHILDHOOD EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for young children. Prerequisite: teaching experience. It is strongly recommended that students enrolling for this course be teaching since emphasis will be placed on classroom application of teaching strategies.

0823.670-674 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designed by the department each time a topic is scheduled. Approval by the appropriate Graduate Coordinator is required. Each topic may be taken as a separate course.

ELEMENTARY EDUCATION COURSES (0802)

Upper Division—Undergraduate and Graduate

0802.411 STAFF DEVELOPMENT AND LEADERSHIP IN THE
ELEMENTARY SCHOOL (3)

0802.429 METHODS AND PRINCIPLES OF READING
INSTRUCTION—ADVANCED (3)

0802.441 CURRICULUM DEVELOPMENT IN THE ELEMENTARY
SCHOOL (3)

- 0802.451 IMPLEMENTATION OF CAREER EDUCATION IN THE
ELEMENTARY SCHOOL (3)
- 0802.457 ENGLISH FOR THE NON-ENGLISH-SPEAKING CHILD (3)
- 0802.458 PRACTICUM: ENGLISH FOR THE NON-ENGLISH-
SPEAKING CHILD (1-4)
- 0802.470- SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3)
- .489
- 0802.494 TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6)
- 495 INDEPENDENT STUDY IN EDUCATION:
ELEMENTARY (1-4)
- 0802.496 DIRECTED READING: ELEMENTARY EDUCATION (1-4)

Non-departmental Listings

- 1001.471 ADVANCED ART EDUCATION (3) (See Art Department
Listings)
- 0401.303 LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3)
(See Biology Department Listings)
- 1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE
ELEMENTARY SCHOOL TEACHER (1-3)
(See Math Department Listings)
- 1902.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3)
(See Physics Department Listings)
- 0834.371 TEACHING SCIENCE IN EARLY CHILDHOOD (2)
- 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3)
(See Physics Department Listings)
- 0834.470- SEQUENTIAL SCIENCE MODULES FOR THE
ELEMENTARY SCHOOL TEACHER (1-3)
(See Physics Department Listing)
- 0834.488 AEROSPACE EDUCATION WORKSHOP (3)
(See Physics Department Listings)

Graduate Division

0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organization, teaching and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: elementary teaching experience.

0802.511 READING AND OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—ADVANCED (3) Application of theory and research to the teaching of reading and the other language arts. Prerequisites: 0802.321, 0802.323 or 0802.462.

0802.513 PSYCHOLINGUISTICS AND READING INSTRUCTION (3) Investigation of psycholinguistic research. Method of applying psycholinguistic diagnosis. Development of instructional strategies based on diagnostic findings. Employment of syntactic measures of readability. Limited work with one child is required. Prerequisite: one course in reading instruction.

0802.521 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES (3) Factors related to learning difficulties in the elementary and middle school; use of formal and informal tests and procedures for diagnosing learning difficulties; materials and methods for remediation of learning difficulties in the areas of oral language, written language, reading, spelling, handwriting and

mathematics. Student teaching and/or classroom teaching experience and 6 semester hours in psychology.

0802.523 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES—ADVANCED (3) Topics include the diagnostic teaching cycle, team conferencing, identification of learning problems and individual learning styles, and effects of mainstreaming. Teaching strategies to improve auditory, visual, and verbal skills, cognitive skills related to arithmetic and reading comprehension, and classroom behavior will be explored. Students must tutor one child as a requirement of the course. Prerequisites: 0801.529 OR 0801.521 or permission of the instructor.

0802.531 EDUCATING THE GIFTED (3) Identification of gifted students; curricular adaptations and school programs; stimulating creativity and problem solving strategies; meeting needs of gifted students in elementary and middle schools. Assignments include school visits, lesson plan design, and readings on special topics. Prerequisites: student teaching or teaching experience or consent of instructor.

0802.533 READING AND LANGUAGE ARTS FOR GIFTED STUDENTS (3) Teaching reading and language arts to gifted students, diagnosing levels and needs, evaluating programs, preparing an integrative unit, assessing techniques for teaching high-level comprehension and study skills, and locating resources for high-quality teaching. Prerequisite: one course in children's literature or young adult literature or reading and language arts, advanced or educating the gifted or permission of instructor.

0802.537 MAINSTREAMING FOR THE CLASSROOM TEACHER (3) The background of and legal basis for mainstreaming. Emphasis is on the regular classroom situation as it relates to the learning disabled, the mildly retarded, and the gifted. Characteristics, methods, and materials will be emphasized in the development of IEP's (Individualized Educational Program). Prerequisites: student teaching or teaching experience or consent of instructor.

0802.540 DISCIPLINE AND MANAGEMENT IN THE ELEMENTARY SCHOOL (3) Examination of the issue of classroom discipline in the elementary school and development of ways and means of implementing appropriate classroom management techniques. Prerequisites: student teaching, teaching experience, or consent of instructor.

0802.548 INDIVIDUALIZING LEARNING IN THE ELEMENTARY SCHOOL (3) Theory of individualizing learning and restructuring of organizational patterns, with emphasis on behavioral objectives, learning centers, listening stations, task folders, and media centers. A written project is required. Prerequisite: certification and teaching experience, or consent of instructor.

0802.561 HUMANIZING THE CURRICULUM (3) Emphasis upon the philosophy, theories, and techniques in humanistic education. Study and practice in development and use of methods, materials and curricula for humanistic teaching. Prerequisite: student teaching, teaching experience, or consent of the instructor.

0802.565 THEORY AND PRACTICE OF CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) History of curriculum development in the elementary school; basic considerations affecting curriculum development; patterns of organization; objectives; practices and evaluation; problems in curriculum development. Prerequisite: consent of program coordinator.

0802.570-574 SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3) In-depth study of a selected topic in elementary education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Each topic may be taken as a separate course. Prerequisites: varies with each topic.

0802.585 SEMINAR IN ELEMENTARY SCHOOL SOCIAL STUDIES (3) Trends, content, issues, and materials involved in the teaching of social studies. Each student will be expected to explore in-depth one aspect of the subject and present his findings to the group.

0802.616 THE ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Analysis of principles of elementary school administration, the administrator's role and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisites: 3 years teaching experience, teacher certification and 9 semester hours of graduate credit.

0802.647 THE TEACHING PROCESS: ELEMENTARY EDUCATION (3) Study of recent theories, methods and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for elementary children. Prerequisites: teaching experience. (It is strongly recommended that students enrolling for this course be teaching since emphasis will be placed on classroom application of teaching strategies.)

0802.670-674 SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3) In-depth study of a selected topic in education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course.

0802.675 SEMINAR IN ELEMENTARY EDUCATION (3) Scientific investigation of selected aspects of education, with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: 30 semester hours of graduate work including 0801.691.

0802.681 SEMINAR IN ELEMENTARY SUPERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: 9 semester hours of graduate work.

0802.699 MASTER'S THESIS IN ELEMENTARY EDUCATION (3)

SECONDARY EDUCATION COURSES

Upper Division—Undergraduate and Graduate

0803.405 FIELD EXPERIENCES IN JUVENILE CORRECTIONAL INSTITUTIONS (3)

0803.421 THE JUNIOR HIGH SCHOOL (3)

0803.431 DISCIPLINE AND CLASSROOM MANAGEMENT IN SECONDARY SCHOOLS (3)

0803.457 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3)

0803.458 TEACHING COMPOSITION IN THE SECONDARY SCHOOL (3)

0803.459 CONTEMPORARY MATERIALS FOR TEACHING ENGLISH IN SECONDARY SCHOOLS (3)

- 0803.460 TEACHING READING IN THE SECONDARY SCHOOL (3)
- 0803.461 TEACHING READING IN THE SECONDARY CONTENT
AREAS (3)
- 0803.463 DEVELOPMENTAL READING FOR THE EARLY ADOLES-
CENT (3)
- 0803.470- SPECIAL TOPICS IN SECONDARY
.489 EDUCATION (1-3)
- 0803.494 TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6)
- 0803.495 INDEPENDENT STUDY IN SECONDARY EDUCATION (1-4)
- 0803.496 DIRECTED READINGS IN SECONDARY EDUCATION (1-4)

Non-departmental Listings

- 1701.429 READINGS IN MATHEMATICS EDUCATION FOR THE
SECONDARY SCHOOL TEACHER (See Math Dept. Listings)
- 0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)

Graduate Division

0803.503 TEACHING WRITING ACROSS THE CURRICULUM (3) The course trains teachers to more effectively teach writing skills to their students. Such a course is given for specific school systems who invite the Maryland Writing Project to plan a program for their teachers. General attention is given to the process of writing, syntax, small group techniques and writing assessment. Specific course focus is based upon system needs, and is planned cooperatively by MWP staff and the school system. Prerequisites: bachelor's degree; teaching experience.

0803.505 THEORY, RESEARCH & PRACTICE IN TEACHING (6) The course trains teachers at all grade levels, K through University, and in all disciplines, to more effectively teach writing skills to their students. Workshop participants are selected by Maryland Writing Project directors after application and interview. Applications are invited from teachers who have established a solid record of teaching writing, and who communicate well with other teachers. Graduates of the institutes may become part of a corps of "teacher consultants" who help lead in-service workshops for other teachers. Prerequisites: bachelor's degree; teaching experience; consent of the instructor.

0803.511 DIAGNOSIS AND PRESCRIPTION OF LEARNING DISABILITIES OF SECONDARY SCHOOL STUDENTS (3) Nature and causes of learning disabilities of secondary school pupils; psychological and pedagogical principles underlying remediation techniques of diagnosis and prescription for learning-disabled pupils. Prerequisites: Teaching Reading in the Secondary School (0803.460) or equivalent, teaching experience. (It is strongly recommended that students enrolling for this course be teaching, since emphasis will be placed on a practicum approach working with secondary pupils.)

0803.521 INDIVIDUALIZING LEARNING IN THE SECONDARY SCHOOL (3) Bases for individualizing instruction; organizational patterns; assessing pupil readiness and preparing goals; developing learning strategies in secondary content areas; grading and evaluation; implementing individualized programs on a classroom, departmental and school level. Prerequisite: teaching experience.

0803.523 THE MIDDLE SCHOOL (3) Functions and characteristics of the middle school; emphasis on nature of transescent youth (ages 10-14), curricu

lum, and organizational patterns. Prerequisite: 0802.361 or 0802.462, or 0803.341.

0803.525 TEACHING IN THE MIDDLE SCHOOL (3) Instruction in the methods required for teaching in the middle school. An individualized program of instruction, readings, observations and teaching experiences will be planned for each student. Prerequisite: teaching experience.

0803.531 THE COMMUNITY COLLEGE (3) A survey of the historical development of the community college movement, exploration of the present state and national patterns of community colleges, consideration of current student needs, examination of purposes and goals, evaluation of curriculum offerings, and study of problems of finance, accreditation and trends. Prerequisite: consent of instructor.

0803.533 CURRICULUM AND INSTRUCTION IN THE COMMUNITY COLLEGE (3) Community college educational programs; types of curricula; instructional techniques, evaluative procedures, community involvement and societal expectations; concerns and trends affecting curricular programs; curricular objects as related to institutional goals. Prerequisite: The Community College (0803.531) or the equivalent.

0803.535 DISCIPLINE AND CLASSROOM MANAGEMENT IN SECONDARY SCHOOLS (3) Examination and analysis of approaches to maintain and improve discipline in secondary classrooms. Strategies to solve discipline problems and develop efficient classroom management and reduce sources of conflict between teacher and pupils. Prerequisite: teaching experience or completion of student teaching.

0803.537 MAINSTREAMING FOR THE CLASSROOM TEACHER (3) The background of and legal basis for mainstreaming. Emphasis is on the regular classroom situation as it relates to the learning disabled, the mildly retarded and the gifted. Characteristics, methods, and materials will be emphasized in the development of IEP's (Individualized Educational Program). Prerequisite: student teaching or teaching experience or consent of instructor.

0803.549 TEACHING GIFTED STUDENTS IN THE SECONDARY SCHOOL (3) Study of the characteristics of gifted adolescents and investigation of appropriate education programs at the secondary school level, with emphasis on identification procedures, administrative arrangements, curriculum, and methodology together with an analysis of the role of the gifted in society. Prerequisites: graduate standing, 6 semester hours of completed graduate work, and either teaching experience or consent of the graduate coordinator of secondary education.

0803.551 SLOW LEARNER IN THE SECONDARY SCHOOL (3) Explores motivational devices, discipline, planning instruction, testing and evaluation for the slow learner as well as techniques for developing an adequate self-concept and maintaining a positive classroom atmosphere. Prerequisites: teaching experience, student teaching, or consent of instructor. (It is strongly recommended that students enrolling for this course be teaching, since emphasis will be placed on a practicum approach working with secondary pupils.

0803.570-574 SPECIAL TOPICS IN SECONDARY EDUCATION (1-3) In-depth study of a selected topic in education. the specific requirements and prerequisites will vary with each topic and will be designated by the department

each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisite: varies with each topic.

0803.641 CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL

(3) Principles and philosophies of curriculum development, objectives, practices and evaluation trends; the teacher's role. Prerequisite: consent of instructor.

0803.643 THE ADMINISTRATION OF THE SECONDARY SCHOOL (3)

Analysis of principles of school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite: 3 years teaching experience, teacher certification and 9 semester hours of graduate credit.

0803.647 THE TEACHING PROCESS: SECONDARY EDUCATION (3)

Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for secondary students. Prerequisite: teaching experience. (It is strongly recommended that students enrolling for this course be teaching since emphasis will be placed on classroom application of teaching strategies.)

0803.651 SEMINAR IN MIDDLE SCHOOL CURRICULUM (3) Status of the middle school; curriculum designs and programs; organization for instruction; teacher preparation programs; role of guidance and nature of the transience; special programs; community involvement; and evaluation of educational programs and experiences.

0803.653 SEMINAR IN SECONDARY SCHOOL CURRICULUM (3)

Theories, research, and evaluation in the field of secondary school curriculum, nature of present curriculum, rationale for curriculum development and analysis; integration of theory and practice. Prerequisite: a course in curriculum at the graduate level.

0803.670-674 SPECIAL TOPICS IN SECONDARY EDUCATION (1-3)

In-depth study of a selected topic in education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course.

0803.679 SEMINAR IN SECONDARY SCHOOL SOCIAL STUDIES (3)

A seminar approach to current research, trends, practices, issues, content, materials, and problems in the teaching of contemporary secondary school social studies. Individual reading and research will be pursued on selected topics, culminating in a seminar paper. Prerequisite: consent of instructor or prior teaching experience in social studies.

0803.681 SEMINAR IN SECONDARY EDUCATION (3) Scholarly investigation of selected aspects of secondary education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: 24 semester hours of graduate work including 0802.691, and attained advanced to candidacy status. Not offered in summer sessions.

0803.683 SEMINAR IN SECONDARY SUPERVISION (3) Role of the supervisor, supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: 9 semester hours of graduate work in the field of education.

0803.699 MASTER'S THESIS IN SECONDARY EDUCATION (3)

ADULT EDUCATION COURSES (0807)

Upper Division—Undergraduate and Graduate

0807.485 ADULT EDUCATION (3)

0807.487 TEACHING THE ADULT LEARNER (3)

0807.489 PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3)



SAFETY AND DRIVER EDUCATION COURSES (0836)

Safety and Driver Education Courses carry graduate credit but may not be applied toward a Master's degree.

Upper Division—Undergraduate and Graduate

- 0836.430 PRINCIPLES OF ACCIDENT PREVENTION (3)
- 0836.431 HIGHWAY TRANSPORTATION SYSTEM AND DRIVER TASK ANALYSIS (3)
- 0836.433 MULTIPLE CAR FACILITIES AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3)
- 0836.434 FIXED BASE SIMULATION AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3)
- 0836.439 BASIC PUPIL TRANSPORTATION (3)
- 0836.440 ADVANCED PUPIL TRANSPORTATION (3)
- 0836.441 ADMINISTRATION AND SUPERVISION OF DRIVER EDUCATION (3)
- 0836.445 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION (3)

SPECIAL EDUCATION COURSES (0808)

Upper Division—Undergraduate and Graduate

- 0808.441 SPECIAL NEEDS OF THE HANDICAPPED CHILD (3)
- 0808.481 METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3)
- 0808.483 BRAILLE READING AND WRITING (3)

Graduate Division

0808.541 INTERVENTION TECHNIQUES—CHILDREN WITH SPECIAL NEEDS (3) Designed to help teachers develop a wide range of intervention techniques to work with children with special needs. Includes curriculum and instructional strategies, discipline and crises intervention; parent conferencing. Prerequisites: 6 semester hours ECE (3 must be 0808.441 or equivalent), 6 semester hours in psychology.

0808.570-579 SPECIAL TOPICS IN SPECIAL EDUCATION (1-3) In-depth study of a selected topic in education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisite: Will vary with each topic.

0808.641 INTERNSHIP—CHILDREN WITH SPECIAL NEEDS (3-6) This internship is designed to help teachers develop teaching skills and instructional strategies appropriate for working with children with special needs in a special education setting. Placements vary according to student interests and background. spring, fall, minimester, and Summers under special circumstances. Prerequisites: graduate standing; 0808.441 or equivalent, 0808.541 and 12 hrs. psychology.

GENERAL EDUCATION COURSES (0801)

Upper Division—Undergraduate and Graduate

- 0801.401 FOUNDATIONS OF EDUCATION (2-3)
- 0801.402 HISTORY OF EDUCATION (3)

- 0801.403 COMPARATIVE EDUCATION (3)
- 0801.405 PHILOSOPHY OF EDUCATION (3)
- 0801.406 RECENT TRENDS IN TEACHING (3)
- 0801.407 CONTEMPORARY ISSUES IN EDUCATION (3)
- 0801.409 FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2)
- 0801.411 OPEN EDUCATION: PHILOSOPHY AND PRACTICE (3)
- 0801.412 OPEN EDUCATION: INTERPERSONAL RELATIONS (3)
- 0801.414 EDUCATIONAL TESTS AND MEASUREMENTS (2-3)
- 0801.415 EDUCATIONAL STATISTICS (3)
- 0801.417 CHILDREN'S LITERATURE (3)
- 0801.418 YOUNG ADULT LITERATURE (3)
- 0801.431 THE SCHOOL CURRICULUM (3)
- 0801.433 THE NON-GRADED CURRICULUM (3)
- 0801.435 TEACHING PHILOSOPHY IN THE SCHOOLS (3)
- 0801.445 HUMAN RELATIONS AND THE INDIVIDUAL (3)
- 0801.446 HUMAN RELATIONS AND THE COMMUNITY (3)
- 0801.449 CITIZENSHIP EDUCATION IN THE SCHOOL (3)
- 0801.451 GUIDANCE IN THE PUBLIC SCHOOL (2-3)
- 0801.453 SUPERVISORY PRACTICES IN TEACHER EDUCATION (3)
- 0801.455 INTRODUCTION TO CAREER DEVELOPMENT EDUCATION:
THEORY AND PRACTICE (3)
- 0801.461 LANGUAGE AND THE URBAN CHILD (3)
- 0801.463 SEX ROLE DEVELOPMENT IN THE SCHOOLS (2-3)
- 0801.467 TEAM TEACHING WORKSHOP (3)
- 0801.470-489 SPECIAL TOPICS IN EDUCATION (1-3)
- 0801.494 TRAVEL AND STUDY, EDUCATION: (PROJECT TO BE NAMED)
(1-6)
- 0801.495 INDEPENDENT STUDY IN EDUCATION (1-4)
- 0801.496 DIRECTED READINGS IN EDUCATION (1-4)

Graduate Division

0801.501 EDUCATIONAL IDEAS IN HISTORICAL PERSPECTIVE (3) Current trends and issues in education as reflecting and influencing the social, economic, and political forces in our cultural heritage. Prerequisite: 0801.401 or 0801.402 or 0801.405.

0801.503 SCHOOL LAW (3) A study of the legal framework within which the public and non-public schools function. The course will give attention to the legal relationships among federal, state, and local governments; the legal status of school districts, boards of education, and school administrators; the legal status of non-public schools; and the law regarding all facets of the school program, staff, and pupils. Prerequisites: Student teaching or teaching experience.

0801.507 HOME, SCHOOL, COMMUNITY (3) The interaction between home and school and community in educational programs; survey and evaluation of techniques for working with parents; study of various agencies contributing to the education and well-being of children and youth at home and at school. Prerequisites: a course in Sociology and approval of Department of Education.

0801.511 SUPERVISION OF STUDENT TEACHING (3) An analysis of the roles of the cooperating teacher, college supervisor, and student teacher; current practices, issues, problems, trends and evaluation in laboratory experiences, current research. Prerequisite: teaching experience.

0801.514 EDUCATIONAL TESTS AND MEASUREMENTS FOR RESEARCH

0801.514 EDUCATIONAL TESTS AND MEASUREMENTS FOR RESEARCH

(3) Problems in measurement; principles underlying choice of test instruments; survey of test literature; dealing with test data; correlation and interpretation of tests; construction of experimental research designs. Recommended for students intending to enroll in 0801.691. Not open to those who have had 0801.414.

0801.521 READING DISABILITIES (3) The content of this course includes the following: causes of reading disabilities, observation and interview procedures, standard and informal tests, report writing, diagnosis and correction or reading difficulties. Prerequisite: one undergraduate course in the teaching of reading.

0801.523 METHODS AND MATERIALS IN TEACHING READING IN THE ELEMENTARY SCHOOL (3) A course in the foundations of reading instructions. Covers trends in methods, materials, and individualized reading designs essential to the organization and administration of a developmental reading program. Prerequisite: one undergraduate course in teaching of reading.

0801.525 METHODS AND MATERIALS FOR TEACHING READING IN HIGHER EDUCATION (3) An investigation and analysis of current methods and materials used in the teaching of reading and study skills in the community college, and university. Prerequisites: 6 semester hours of reading courses or consent of instructor.

0801.527 ORGANIZATION AND ADMINISTRATION OF READING AND STUDY SKILLS PROGRAMS IN HIGHER EDUCATION (3) Analysis of the principles, practices and problems of establishing reading/study skills programs in the community college, and university. Visits to local programs provide practical application basic theories. Prerequisite: 6 semester hours of reading courses or consent of instructor.

0801.529 CORRECTIVE READING (3) The psychology of reading; methods, principles, techniques, and materials for the classroom teacher in meeting a typical learning patterns. Experience in a practicum situation involving the development of skill in analysis and correction of reading disabilities. Prerequisite: 0802.497 and 0802.429 or 0802.427 or consent of instructor (to provide for students who have had different background and/or experience in the field).

0801.541 TRANSACTIONAL ANALYSIS IN EDUCATION (3) Principles and theory of transactional analysis, and the relations of this knowledge to education. The application of transactional analysis and its related theories to the education setting. Prerequisite: teacher certification or consent of instructor.

0801.545 THEORIES IN EDUCATIONAL ADMINISTRATION (3) Structures a theoretical and research base for the study of educational administration. Major topics include determining the purposes of educational organizations, defining educational policies, and task analysis. Prerequisite: teaching experience, teacher certification.

0801.549 AMERICAN POLITICS AND EDUCATION (3) The American political structure and its relation to policy making and administration of public education. Topics includes: educational opportunity, community responsibility and control, accountability, role of the courts, church-state relations, academic freedom. Prerequisites: 0801.401 Foundations of Education, and 2207.103, introduction to American National Government, or equivalent.

0801.550 ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR (3)

The analysis of teaching learning situations to aid the advanced teacher education students to develop, refine and prescribe skills and strategies and field work. Prerequisites: teaching experiences, supervisory experiences, 0801.453, Supervisory Practices in Teacher Education, and/or 0801.511. Supervision of Student Teaching.

0801.570-574 SPECIAL TOPICS IN EDUCATION (1-3) In-depth study of a selected topic in education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. each topic may be taken as a separate course. Prerequisite: varies with each topic.

0801.585 INTERDISCIPLINARY STUDY IN PHILOSOPHY AND EDUCATION (3) An interdisciplinary seminar with two aspects; current thought in the philosophy of a variety of academic fields and their implications for the broad field of education. Concentration will be upon development in the present century.

0801.595 INDIVIDUALIZED STUDY (3-6) Individually planned programs which will permit the student to engage in research and/or field experiences relative to his professional growth. Admission by application to the graduate program coordinator only.

0801.601 REPRESENTATIVE AMERICAN EDUCATORS (3) A biographical approach to the development of American education through selected groups of American educators whose contributions have significantly shaped its form and substance from the colonial period to the present. Prerequisite: 0801.401, Foundations of Education, or the equivalent.

0801.607 SEMINAR IN EDUCATIONAL CLASSICS I: ANCIENT PERIOD THROUGH THE RENAISSANCE (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. A seminar paper will be developed by each student. Prerequisite: 0801.401, Foundations of Education, or 0801.301, History of Education, or 0801.501 Educational Ideas in Historical Perspective.

0801.609 SEMINAR IN EDUCATIONAL CLASSICS II: RENAISSANCE TO THE PRESENT (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. Prerequisite: 0801.401, Foundations of Education, or 0801.301, History of Education, or 0801.501, Educational Ideas in Historical Perspective.

0801.625 CLINIC PRACTICUM IN READING (3-6) A clinical or laboratory experience. Students diagnose and treat reading disability cases under the supervision of the directors of the reading program. Prerequisites: 0801.621 and 0801.623.

0801.626 TESTS AND MEASUREMENTS IN READING—ADVANCED (3) Theory and specific techniques of assessing reading programs within the schools, using instruments for evaluating students' specific reading skills, developing a diagnostic instrument for assessing students' performance, and interpreting standardized reading tests. Interpreting and utilization of statistical results will be stressed. prerequisite: one course in tests and measurements or educational statistics.

0801.627 EVALUATION OF READING RESEARCH (3) The student will be exposed to the tools of research and experimentation. The emphasis will be on past and present research relevant to reading. Prerequisite: a course in tests and measurements of statistics and consent of the instructor.

0801.629 SEMINAR IN READING (3) An advanced course to familiarize the student with interdisciplinary aspects of the reading process. The highlight of the course will be the team-teaching aspect. Consultants such as psychologists, pediatricians, optometrists, guidance teachers, etc., will play an important role in this course. Prerequisites: 0801.621 and 0801.623.

0801.631 DIAGNOSIS AND EVALUATION OF READING DISABILITIES (3) Emphasis on the practical uses of standardized and non-standardized instruments and procedures for evaluating reading disabilities. Prerequisites: 0801.621 and 0801.623.

0801.641 SEMINAR IN LIABILITY FOR PROFESSIONALS IN EDUCATION (3) In-depth discussions of a great variety of emerging legal cases appropriate to liability among professions in education. Emphasis will be given to such topics as: negligence, duty, abrogation of duty, foreseeability, in loco parentis, sovereign immunity, suspension and expulsion, professional negotiations, evaluations, and student rights and responsibilities. Prerequisite: one course in school law.

0801.670-674 SPECIAL TOPICS IN EDUCATION (1-3) In-depth study of a selected topic in education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course.

0801.691 INTRODUCTION TO RESEARCH IN EDUCATION (3) Theory, methods and techniques applicable to the systematic appraisal of an educational process, program, product, institution or staff. The conceptual, hypothetical and pragmatic basis for educational evaluation. Prerequisite: a course in statistics, or tests and measurements.

0801.692 INTRODUCTION TO EDUCATIONAL EVALUATION (3) Theory, methods and techniques applicable to the systematic appraisal of an educational process, program, product, institution or staff. The conceptual, hypothetical and pragmatic basis for educational evaluation. Prerequisite: a course in statistics, or tests and measurements.

0801.697 INTERNSHIP IN EDUCATION (1-6) An opportunity to relate theory and practice through experience in such settings as educational institutions and clinics. Plans will be formulated in advance with the graduate coordinator and approved by the dean of graduate school. Prerequisite: consent of graduate coordinator, who may require other prerequisites.

0801.699 MASTER OF EDUCATION THESIS (3) Carefully executed investigation and accurate recording of a specific problem selected with reference to the student's professional goals and resources. Historical, descriptive, experimental, or action research can provide a single or multiple framework within which the student may work. Includes an outline of the proposed thesis submitted for inspection and approval by the Graduate Studies Committee, an application of techniques derived from the research advisor.

- 0831.595 RESEARCH IN ART AND ART EDUCATION (3)
(See Art Dept. Listings)
- 0831.697 SEMINAR IN ART EDUCATION (3) (See Art Dept. Listings)
- 0832.502 CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION
(See Music Dept. Listings)
- 1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY
SCHOOL TEACHERS (See Math Dept. Listings)



ENGLISH

Co-Chairperson—Donald H. Craver

Co—Chairperson—Dan L. Jones

ENGLISH COURSES (1501)

Upper Division—Undergraduate and Graduate

- 1501.302 THE ENGLISH RENAISSANCE (3)
- 1501.303 THE LATER RENAISSANCE (3)
- 1501.309 AMERICAN DRAMA (3)
- 1501.312 WORLD DRAMA I (3)
- 1501.313 WORLD DRAMA II (3)
- 1501.319 ENGLISH MEDIEVAL AND RENAISSANCE DRAMA (3)
- 1501.320 ENGLISH DRAMA FROM THE RESTORATION TO SHAW (3)
- 1501.321 MODERN DRAMA (3)
- 1501.323 THE CONTINENTAL NOVEL (3)
- 1501.325 HISTORICAL LINGUISTICS (3)
- 1501.326 MYTH AND LITERATURE (3)
- 1501.327 STRUCTURAL LINGUISTICS (3)
- 1501.328 HISTORY AND LITERATURE OF THE OLD TESTAMENT (3)
- 1501.329 HISTORY OF AMERICAN ENGLISH (3)
- 1501.332 COMPARATIVE GRAMMAR (3)
- 1501.335 LITERATURE OF THE ENGLISH ROMANTIC PERIOD (3)
- 1501.337 VICTORIAN PROSE AND POETRY I (3)
- 1501.338 VICTORIAN PROSE AND POETRY II (3)
- 1501.340 MEDIEVAL LITERATURE (3)
- 1501.345 EIGHTEENTH CENTURY ENGLISH LITERATURE (3)
- 1501.347 FOLKLORE AND LITERATURE (3)
- 1501.401 THE LITERATURE OF BLACK AMERICA (3)
- 1501.405 HISTORY OF LITERARY CRITICISM (3)
- 1501.407 MODERN POETRY (3)
- 1501.408 MODERN FICTION TO WORLD WAR II (3)
- 1501.409 MODERN FICTION SINCE WORLD WAR II (3)
- 1501.410 CHAUCER (3)
- 1501.412 MILTON AND THE HUMANISTIC TRADITION (3)
- 1501.415 SHAKESPEARE (COMEDIES) (3)
- 1501.416 SHAKESPEARE (TRAGEDIES) (3)
- 1501.419 THE TWENTIETH-CENTURY BRITISH NOVEL (3)
- 1501.420 TWENTIETH-CENTURY BRITISH POETRY (3)
- 1501.422 DEVELOPMENT OF THE ENGLISH NOVEL I (3)
- 1501.423 DEVELOPMENT OF THE ENGLISH NOVEL II (3)
- 1501.427 LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3)
- 1501.428 LITERATURE OF THE AMERICAN REALISTIC PERIOD (3)
- 1501.430 HISTORY OF THE ENGLISH LANGUAGE (3)
- 1501.431 STRUCTURE OF THE ENGLISH LANGUAGE (3)
- 1501.435 AMERICAN SHORT STORY (3)
- 1501.437 BRITISH AND AMERICAN PROSE (3)
- 1501.445 NINETEENTH-CENTURY AMERICAN NOVEL (3)
- 1501.446 TWENTIETH-CENTURY AMERICAN NOVEL (3)
- 1501.447 AMERICAN POETRY THROUGH ROBERT FROST (3)
- 1501.448 TWENTIETH-CENTURY AMERICAN POETRY (3)
- 1501.471 TOPICS IN WORLD LITERATURE (2 or 3)
- 1501.472 TOPICS IN ENGLISH LITERATURE (2 or 3)

- 1501.473 TOPICS IN AMERICAN LITERATURE (2 or 3)
- 1501.474 TOPICS IN WOMEN'S STUDIES (3)
- 1501.475 TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3)
- 1501.476 TOPICS IN LINGUISTICS (3)
- 1501.485 SEMINAR IN ENGLISH STUDIES I (3)
- 1501.486 SEMINAR IN ENGLISH STUDIES II (3)
- 1501.491 DIRECTED READING IN ENGLISH (2-4)
- 1501.494 TRAVEL AND STUDY (3-6)

Graduate Division

1501.521 STUDIES IN ENGLISH LITERATURE (3) Thorough study of one major area of English literature (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: graduate standing.

1501.523 STUDIES IN LITERARY CRITICISM (3) Thorough study of one major area of literary criticism (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: graduate standing.

1501.525 STUDIES IN AMERICAN LITERATURE (3) Thorough study of one major area of American literature (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: graduate standing.

1501.527 STUDIES IN WORLD LITERATURE (3) Thorough study of one major area of world literature (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: graduate standing.

1501.531 STUDIES IN LINGUISTICS (3) Topics in the technology and philosophy of language: descriptive grammar, psycholinguistics, sociolinguistics, etc. Topic to vary; may be repeated as topics change. Prerequisite: graduate standing.

GENERAL STUDIES

Upper Division—Undergraduate and Graduate

- 4901.401 TOPICS IN SOCIAL SCIENCE (3)
- 4901.411 CREATIVE METHODS OF SOLVING PROBLEMS WORKSHOP (3)
- 4901.421 INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES (3)
- 0305.401 AFRO-AMERICAN PERSPECTIVES (3)
- 2296.331 CHANGING SEX ROLES (3)
- 2296.332 WOMEN'S CULTURE & CREATIVITY (3)
- 2296.491 DIRECTED READING IN WOMEN'S STUDIES (3)
- 2296.496 PRACTICUM IN WOMEN'S STUDIES (3)

Graduate Division

4901.501 INTRODUCTORY SEMINAR IN GENERAL STUDIES (3) An orientation to graduate study and the use of scholarly resources and research techniques to prepare the student to develop and accomplish his/her thematic plan of study. Cross-disciplinary approaches will be stressed.

4901.502 CULMINATING SEMINAR IN GENERAL STUDIES (3) For graduate students in the Master of Arts in General Studies degree program. A seminar

course which seeks primarily to integrate effectively the knowledge and skills developed by the student through the program of study. Each student will undertake an individualized research project involving an analysis of the rationale for and content of the particular program theme. Open only to students in the Master of Arts in General Studies degree program. Must be taken in the last semester of degree work.

GEOGRAPHY AND ENVIRONMENTAL PLANNING

Chairperson: James E. Dilisio

Graduate Departmental Coordinator; Geography and Environmental Planning Program:
Wayne McKim

GEOGRAPHY COURSE (2206)

Upper Division—Undergraduate and Graduate

SYSTEMATIC COURSES

- 2206.317 ENERGY RESOURCES (3)
- 2206.319 SOILS AND VEGETATION (3)
- 2206.351 URBAN DESIGN—MAN-SPACE-ENVIRONMENT (3)
- 2206.353 PRINCIPLES OF ZONING (3)
- 2206.355 HISTORICAL GEOGRAPHY OF URBANIZATION (3)
- 2206.361 ADVANCED ECONOMIC GEOGRAPHY (3)
- 2206.363 SPATIAL ORGANIZATION OF ECONOMIC ACTIVITY (3)
- 2206.371 ADVANCED PHYSICAL GEOGRAPHY (4)
- 2206.373 CLIMATOLOGY (3)
- 2206.375 QUANTITATIVE METHODS IN GEOGRAPHY (3)
- 2206.377 DESCRIPTIVE METEOROLOGY (4)
- 2206.381 POLITICAL GEOGRAPHY (3)
- 2206.385 POPULATION AND SETTLEMENT (3)
- 2206.391 URBAN SYSTEMS I (3)
- 2206.392 URBAN SYSTEMS II (3)
- 2206.401 GROWTH OF GEOGRAPHIC THOUGHT (3)
- 2206.403 PLANNING IMPLEMENTATION (3)
- 2206.405 COMPREHENSIVE PLANNING (3)
- 2206.411 STUDIES IN NATURAL HAZARDS (3)
- 2206.415 GEOGRAPHICAL ASPECTS OF POLLUTION (3)

TECHNIQUE COURSES

- 2206.321 INTERPRETATION OF AERIAL PHOTOGRAPHS (3)
- 2206.323 CARTOGRAPHY AND GRAPHICS I (3)
- 2206.324 CARTOGRAPHY AND GRAPHICS II (3)
- 2206.327 MAP ANALYSIS AND INTERPRETATION (3)
- 2206.341 TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS(3)

REGIONAL COURSES

- 2206.419 EASTERN ANGLO-AMERICA (3)
- 2206.420 WESTERN ANGLO-AMERICA (3)

- 2206.423 MARYLAND AND THE MIDDLE ATLANTIC REGION (3)
- 2206.431 GEOGRAPHY OF AFRICA (3)
- 2206.441 GEOGRAPHY OF AUSTRALIA AND OCEANIA (3)
- 2206.443 GEOGRAPHY OF EAST ASIA (3)
- 2206.445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3)
- 2206.447 ECONOMIC AND POLITICAL GEOGRAPHY OF THE MIDDLE EAST (3)
- 2206.451 GEOGRAPHY OF EUROPE (3)
- 2206.453 GEOGRAPHY OF THE USSR (3)
- 2206.461 GEOGRAPHY OF SOUTH AMERICA (3)
- 2206.463 GEOGRAPHY OF CENTRAL AMERICA AND THE CARIBBEAN (3)

SEMINARS AND SPECIAL COURSES

- 2206.357 CULTURAL GEOGRAPHY (3)
- 2206.359 ECONOMIC GEOGRAPHY (3)
- 2206.413 TECHNOLOGY AND THE ENVIRONMENT: A GLOBAL PERSPECTIVE (3)
- 2206.470- SEMINAR:
- .479 SELECTED TOPICS IN GEOGRAPHY (3)
- 2206.483 SEMINAR: THE AMERICAS (3)
- 2206.485 SEMINAR: SOUTH ASIA (3)
- 2206.487 SEMINAR: GEOGRAPHY AND MAN IN THE TWENTIETH CENTURY (3)
- 2206.489 SEMINAR: STUDIES IN ENVIRONMENTAL QUALITY (3)
- 2206.491 GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6)
- 2206.493 FIELD GEOGRAPHY (2-6)
- 2206.494 TRAVEL STUDY (3-6)
- 2206.495 DIRECTED READING IN GEOGRAPHY (3)
- 2206.496 INDEPENDENT STUDY IN GEOGRAPHY (1-6)

Graduate Division

2206.501 GEOGRAPHIC METHODOLOGY AND TECHNIQUES: TRENDS AND PROSPECTS (3) An analytic survey of significant developments in the evolution of geographic thought, techniques and methodology. Course emphasis will be on the most important trends and prospects in current geographic research. Prerequisites: Graduate standing.

2205.521 RESEARCH TECHNIQUES (3) A course designed to investigate the primary sources of information in geography and to learn the nature of original investigation. Prerequisite: graduate standing.

2206.561 STUDIES IN ECONOMIC GEOGRAPHY (3) The study of selected geographical topics dealing with spatial distributions of economic activities. Topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department.

2206.571 STUDIES IN PHYSICAL GEOGRAPHY (3) The study of selected geographical topics dealing with physical landscape phenomena, especially in regards to distribution, relationships, and significance to man. Topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department.

2206.581 SEMINAR IN POLITICAL GEOGRAPHY (2-6) Special subjects dealing with geography of international politics, e.g., boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department.

2206.583 SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND (3) Individual research on a selected environmental problem in Maryland; oral and written presentations. Prerequisite: consent of department.

2206.591 URBAN GEOGRAPHY STUDIES (2-6) Selected topics dealing with the application of geography to planning, retail and industrial location, and trade analysis. Topics to be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department.

2206.601 LAND USE STUDIES (2-6) Certain selected problems on urban, rural and rural-urban landscapes which consider and account for geographic differences in land utilization. Topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department.

2206.671 SEMINAR IN REGIONAL GEOGRAPHY (2-6) The description, analysis and interpretation of natural and cultural phenomena in certain significant geographic regions. Seminar topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department.

2206.697 RESEARCH (2-6) Directed investigation of a pertinent and appropriate geographical problem or problems based upon field and library study, which will contribute to geographical knowledge. Designed for Master's thesis credit or individual research. Prerequisite: consent of department.

2206.699 MASTER'S THESIS (3-6) Prerequisite: 2206.521 and consent of department.

HEALTH SCIENCE

Chairperson: Neil Gallagher

Graduate Departmental Coordinator: Phyllis G. Ensor

HEALTH COURSES (1201)

Upper Division—Undergraduate and Graduate

1201.401 SEX EDUCATION AND FAMILY LIFE (3)

1201.402 HEALTH SEMINAR (3)

1201.403 HEALTH EDUCATION CURRICULUM (3)

1201.405 DRUGS IN OUR CULTURE (3)

1201.411 HEALTH AND LATER MATURITY—THE AGING PROCESS (3)

1201.451 ECOLOGICAL ASPECTS OF HEALTH (3)

1201.470- HEALTH WORKSHOP (3)

.479

1201.491 HEALTH-DIRECTED READING (1-3)

1201.494 TRAVEL & STUDY (3)

1201.495 INDEPENDENT STUDY (3)

Graduate Division

1201.501 PROBLEMS IN SCHOOL HEALTH (3) Designed to assist the student in developing an understanding of the current problems in school health programs. The structure, organization, scope, content and practices in

the field as revealed through literature and research are studied. Prerequisite: consent of department

1201.511 CURRENT LITERATURE IN HEALTH (3) Critical analysis of current and past research findings concerning health knowledge, attitudes, behavior, and educational techniques. A comprehensive review of health-related periodicals is included. Prerequisite: consent of department.

1201.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory applications of the physiological factors that affect human efficiency before, during and after exercise. Factors to investigated include: metabolism, circulation, respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: consent of department.

1201.515 COMMUNITY HEALTH: QUALITATIVE & QUANTITATIVE ELEMENTS (3) An exploration of vital and health statistics, population dynamics, epidemiology, quantitative models and simulation for health systems planning/evaluation. Emphasis will be placed on how elements of each have been employed in professional settings. Prerequisite: consent of department chair person.

1201.517 PUBLIC HEALTH ADMINISTRATION (3) An overview of the health industry and its dynamics with essential concepts of management and administration as they relate to health care. Prerequisite: graduate standing in health science.

1201.525 RESEARCH METHODS IN HEALTH (3) An introduction to research and statistical designs as directly related to health science and allied health disciplines. Evaluation and redesign of current health research designs will be emphasized. Prerequisite: basic statistics or tests and measurements and graduate standing or consent of instructor.

1201.531 PROGRAM PLANNING IN HEALTH EDUCATION (3) Exploration of planning models in health with application to program planning in health education. Integration of models of planning with theories of health behavior and education for health information and health promotion. Skills developed in proposal writing. Prerequisites: admission to graduate program and 1201.539.

1201.533 HEALTH CARE SYSTEMS (3) A study of historical development of the American health care system and recent trends in organization, administration, and legislation. Prerequisite: graduate standing.

1201.535 ADVANCED STUDY OF THEORIES OF EDUCATIONAL STRATEGIES FOR HEALTH (3) A seminar of practical professional techniques students will be required to prepare samples of educational materials. Prerequisites: Principles of Community Health Education, or School Health Problems.

1201.537 SKILL DEVELOPMENT: LEADERSHIP IN THE HEALTH CARE SETTING (3) Didactic and experiential activities in community health education with emphasis on human interaction and leadership skills. Prerequisite: admission to M.S. program (or other graduate students with permission).

1201.539 EDUCATION AND TRAINING IN HEALTH CARE (3) The purpose of this course is to provide the graduate student with an historical, philosophical and theoretical background to adult learning and health education. Prerequisite: consent of chairperson.

1201.541 PATIENT EDUCATION: INTRODUCTION AND APPLICATION (3) In-depth study of educating the patient in terms of preventive health behavior

in relation to chronic and communicable disease. Special emphasis will be placed on local patient education programs. Prerequisite: anatomy and physiology.

1201.570-579 SPECIAL TOPICS (3) The course is designed to focus on several currently important health topics. Possible subjects include: fitness in a hypokinetic world, aging, death, alcohol and its abuse, consumerism, disease, weight control, value clarification, developing a personal philosophy of health. Prerequisite: 6 semester hours in health or permission of department.

1201.591 DIRECTED READINGS IN HEALTH (3) Individual study of a significant problem in health through consultation with appropriate faculty members. Emphasis is on increased knowledge of health. Prerequisite: consent of department.

1201.685 GRADUATE SEMINAR IN HEALTH (3) This course is designed to provide the student with the opportunity to analyze research trends and critical issues in health education systematically. The course will also provide the opportunity for students to present their research designs and projects. Professional members and ethics will also be discussed. Prerequisite: 1201.525. Principles of Community Health Education.

1201.687 FIELD WORK INTERNSHIP (9) On-site experience in community health education situations. Student will be assigned to agency of choice among approved agencies who have cooperative agreements with the University. Students may arrange continuous part time work with approval. Prerequisites: 1201.515, 1201.525, 1201.531, and other elective course which specifically relates to the community health.

1201.689 HEALTH SCIENCE INTERNSHIP (3-6) Three month supervised field experience with an opportunity to provide health education services in a variety of settings. Including both institutions and community agencies. Prerequisites: graduate standing; consent of graduate coordinator.

1201.697 GRADUATE PROJECT IN HEALTH SCIENCE (3) Individual study and preparation of a project which is oriented toward the application of specific techniques in health education. Credit will be granted only after the project has been accepted by the student's project committee. The project should demonstrate the student's ability to complete independent professional work which may include some statistical analyses. However, the focus should be on the original research as in a thesis. Prerequisites: 1201.525, 1201.685.

1201.699 MASTER'S THESIS IN HEALTH (3) The purpose of this course is to provide credit hours for the completion of a thesis. This must be an original investigation using an acceptable research method and design conducted under the direction of one or more faculty members. The credit will be granted only **after** the thesis has been accepted by the student's thesis committee. Prerequisites: 1201.501 or Principles of Community Health Education, 1201.525 and Graduate Seminar in Health.

HISTORY

Chairperson: Mary Catherine Kahl

HISTORY COURSES (2205)

Upper Division—Undergraduate and Graduate

- 2205.301 ANCIENT NEAR EASTERN CIVILIZATIONS (3)
- 2205.303 HELLENISTIC CIVILIZATION (3)
- 2205.304 ANCIENT GREEK CIVILIZATION (3)
- 2205.305 ROMAN CIVILIZATION (3)
- 2205.311 TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3)
- 2205.312 HISTORY OF MODERN INDIA (3)
- 2205.313 HISTORY OF MODERN SOUTHEAST ASIA (3)
- 2205.316 REVOLUTIONARY CHINA (3)
- 2205.317 MODERN JAPAN (3)
- 2205.321 HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3)
- 2205.322 HISTORY OF MEXICO: NATIONAL PERIOD (3)
- 2205.325 HISTORY OF INDIANS IN LATIN AMERICA: MAYA, AZTEC, AND INCA (3)
- 2205.327 BUSINESS HISTORY OF LATIN AMERICA (3)
- 2205.334 HISTORY OF WEST AFRICA 1500-1885 (3)
- 2205.335 HISTORY OF RECENT AFRICA (3)
- 2205.345 THE AMERICAN COLONIES: 1492-1763 (3)
- 2205.346 THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3)
- 2205.347 THE EARLY NATIONAL PERIOD (3)
- 2205.348 THE JACKSONIAN ERA (3)
- 2205.349 THE CIVIL WAR (3)
- 2205.350 THE ERA OF RECONSTRUCTION (3)
- 2205.351 THE GILDED AGE (3)
- 2205.352 THE POPULIST-PROGRESSIVE ERA (3)
- 2205.359 RECENT AMERICAN HISTORY: 1920-1945 (3)
- 2205.360 RECENT AMERICAN HISTORY: 1945-1975 (3)
- 2205.361 AMERICAN INTELLECTUAL & RELIGIOUS HISTORY (3)
- 2205.363 SOCIAL HISTORY OF THE U.S. TO 1865 (3)
- 2205.364 SOCIAL HISTORY OF THE U.S. SINCE 1865 (3)
- 2205.366 A HISTORY OF AMERICAN BUSINESS (3)

- 2205.367 CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1868 (3)
- 2205.368 CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1868 (3)
- 2205.369 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1900 (3)
- 2205.370 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)
- 2205.373 EARLY AMERICAN FRONTIER (3)
- 2205.374 THE FAR WESTERN FRONTIER (3)
- 2205.375 THE CITY IN AMERICAN HISTORY (3)
- 2205.377 THE IMMIGRANT IN AMERICAN HISTORY (3)
- 2205.379 INDIAN-WHITE RELATIONS IN AMERICAN HISTORY (3)
- 2205.381 HISTORY OF AFRO-AMERICANS (3)
- 2205.383 AMERICAN RADICALISM SINCE 1890 (3)
- 2205.385 AMERICAN LABOR (3)
- 2205.391 HISTORY OF CANADA (3)
- 2205.397 HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3)
- 2205.401 THE EARLY MIDDLE AGES, 300-1050 (3)
- 2205.402 THE HIGH MIDDLE AGES, 1050-1350 (3)
- 2205.403 THE RENAISSANCE ERA: 1300-1530 (3)
- 2205.404 THE REFORMATION: 1500-1648 (3)
- 2205.405 EUROPE: 1648-1815 (3)
- 2205.406 EUROPE: 1815-1914 (3)
- 2205.407 EUROPE: 1914-1939 (3)
- 2205.408 EUROPE SINCE 1939 (3)
- 2205.410 EUROPEAN SOCIAL HISTORY SINCE THE EIGHTEENTH CENTURY (3)
- 2205.411 HISTORY OF EUROPEAN WOMEN (3)
- 2205.413 EUROPEAN MILITARY HISTORY, 1871-1945 (3)
- 2205.415 DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3)
- 2205.417 ECONOMIC HISTORY OF EUROPE TO THE MID-EIGHTEENTH CENTURY (3)
- 2205.418 ECONOMIC HISTORY OF EUROPE SINCE THE MID-EIGHTEENTH CENTURY (3)
- 2205.420 EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3)
- 2205.421 BRITAIN IN THE TWENTIETH CENTURY (3)
- 2205.431 FRANCE: 1763-1871 (3)
- 2205.441 GERMANY: 1871-1945 (3)
- 2205.451 RUSSIA: 1696-1894 (3)
- 2205.452 RUSSIA SOVIET UNION: 1894-1953 (3)
- 2205.453 HISTORY OF SOVIET RUSSIA SINCE STALIN, 1953 TO THE PRESENT (3)
- 2205.477 EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3)
- 2205.479 A HISTORY OF DIPLOMACY (3)
- 2205.481 HISTORY OF MANAGEMENT (3)
- 2205.483 DIRECTED INDIVIDUAL RESEARCH (3)
- 2205.489 ORAL HISTORY (3)
- 2205.490 INTERPRETIVE PROBLEMS IN HISTORY (3)
- 2205.491 BIOGRAPHICAL STUDIES IN HISTORY (3)
- 2205.492 HISTORICAL THEMES (3)

- 2205.494 TRAVEL & STUDY (3-6)
- 2205.496 COLLOQUIUM (3)
- 2205.497 DIRECTED READING (3)
- 2205.498 PHILOSOPHY OF HISTORY (3)

Graduate Division

2205.683 DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading with a historical topic to be selected by the instructor and student; considerable attention to methodology. Prerequisites: 18 semester hours of history and consent of the instructor and department chairperson.

2205.697 DIRECTED READING IN HISTORY (2-4) Independent reading in areas of history selected by the instructor and the student. Prerequisites: Graduate standing and 18 semester hours of history and consent of the instructor and department chairperson.

INSTRUCTIONAL TECHNOLOGY

Chairperson: Paul Jones

Graduate Departmental Coordinator: Gary W. Rosecrans

INSTRUCTIONAL TECHNOLOGY COURSES (0601)

Upper Division—Undergraduate and Graduate

- 0601.301 UTILIZATION OF INSTRUCTIONAL MEDIA (3)
- 0601.401 HISTORY OF INSTRUCTIONAL TECHNOLOGY (3)
- 0601.423 INSTRUCTIONAL MOTION PICTURE FILMMAKING (3)
- 0601.431 SURVEY OF LEARNING BY TELEVISION (3)
- 0601.435 INSTRUCTIONAL TELEVISION UTILIZATION (3)
- 0601.441 COMPUTER TECHNOLOGY AND UTILIZATION (3)
- 0601.453 INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3)
- 0601.471 REFERENCE AND INFORMATION SOURCES (3)
- 0601.473 CATALOGING AND CLASSIFICATION OF MEDIA (3)

Graduate Division

0601.501 ORGANIZATION AND ADMINISTRATION OF MEDIA CENTER PROGRAMS (3) Organizational patterns, management procedures, and supervisory methods and techniques for instructional materials centers are considered. Major topics include: facilities, finance, selection, procurement, security and basic maintenance of equipment and materials; center operation, extension and in-service programs, assessments of systems and programs, and public relations. Prerequisite: 6 semester hours of ISTC courses at the 400 level or above (3 hours may be in 0601.301).

0601.515 MEDIA SELECTION (3) The course will include: (1) the criteria used to select media, (2) classroom management techniques in using media, and (3) various evaluation instruments. Students will be required to provide a written rationale for choosing specific materials, providing a particular instructional setting for the learner, and constructing a particular evaluation instrument. Prerequisite: 6 semester hours of ISTC courses (400 level or above, but 3 semester hours may be in 0601.301)

0701.533 INSTRUCTIONAL TELEVISION (3) The ITV movement; ITV systems and terminology; elements of production; classroom utilization of the ITV

product; developing the ITV workshop; careers in ITV; and aspects of administration, philosophy, evaluation, and research in ITV. Students will be required to demonstrate competencies in criticizing ITV programs, and in the writing and production of scripts utilizing appropriate television facilities. Prerequisite: 6 semester hours of ISTC courses (400 level or above, but 3 hours may be in 0601.301).

0601.534 INDEPENDENT STUDY: INSTRUCTIONAL MOTION PICTURE FILMMAKING II (3) This course, building on previously acquired fundamentals, culminates in the production of an instructional motion picture for classroom use. To this end, the student will explore and develop a working knowledge of scriptwriting techniques, directional techniques, including areas such as: background, audio lighting, and optics applications. Special effects techniques, such as animation and slow and stop motion, will be developed in the course. Independent study under close supervision of instructor. Lab fee \$15.00. Prerequisites: 0601.423, and written permission.

0601.555 MEDIA DESIGN AND PRODUCTION I (3) Students learn the design and production of a teacher-made instructional materials and are required to demonstrate their competency in the production of materials. Lab fee \$15.00 Prerequisite: bachelor's degree.

0601.556 MEDIA DESIGN AND PRODUCTION II (3) Students will demonstrate competencies in selected advanced production techniques and in systematic planning of instructional materials. Research and theory relevant to perception and communication are explored. Prerequisites: 0601.555 and special permit.

0601.563 APPLIED PSYCHOLOGY OF LEARNING (3) Behaviorist and Gestalt learning theories are examined. Particular emphasis is placed on the concepts of Gagne and Piaget. A research paper is required of students, along with 0601.301 and one other instructional technology course.

0601.567 INSTRUCTIONAL DEVELOPMENT (3) Includes an overview of the systems approach and its use in problem solving. The application of the systems approach with instructional technology to the problems of instruction is studied in detail. Students are required to demonstrate competencies in designing mediated instructional sequences and in evaluating media with behavioral descriptors. Prerequisites: 0601.563 and written permission.

0601.573 INSTRUCTIONAL FACILITIES DESIGN (3) A systems approach to the integration of media and facilities into a single unit to fulfill instructional/training goals, including a schedule of time and sequential phasing to insure orderly relationships and interaction of human, technical, and environmental resources. Included are the application of equipment and facilities designed to mediate self-instruction as a part of individually prescribed instruction as well as equipment and facilities designed for large or multi-media instruction. Student projects include facility designs for academic/training utilization. Prerequisites: 6 semester hours of instructional technology courses at the 400 level or above, and written permission.

0601.585 SEMINAR IN INSTRUCTIONAL TECHNOLOGY (3) The student is required to do investigative work in the literature of instructional technology and to write four extensive papers in class which analyze, synthesize, and evaluate this literature. students who do not receive at least a "B" in this must take an advancement examination. Prerequisite: 0601.301.

0601.587 MEDIA DESIGN FOR INDIVIDUALIZED INSTRUCTION (3) Both linear and branching programming are examined. Students are required to design and produce an individualized instructional program which incorporates linear and/or branching programming. Prerequisites: bachelor's degree.

0601.591 DIRECTED READINGS IN INSTRUCTIONAL TECHNOLOGY (3) Independent readings and research in selected areas of instructional technology, reserved for students under the guidance of a departmental advisor. Prerequisite: consent of department chairperson.

0601.595 INDEPENDENT STUDY IN INSTRUCTIONAL TECHNOLOGY (3) Individual and supervised study of research problems and special projects in specific areas of instructional technology. Prerequisites: consent of department chairperson or instructor.

0601.689 INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY (6) The student will work in a school media center under professional supervision. This course satisfies practicum requirements for certifications as a media specialist or media generalist; \$106.00 fee. Prerequisites: 0601.471; 0601.473; 0601.501; and 15 additional semester hours in ISTC courses; also requires written permission.

0601.695 INTRODUCTION TO RESEARCH IN INSTRUCTIONAL TECHNOLOGY (3) Elements of research writing are investigated and basic concepts of inferential statistics are studied. Additionally, relevant research in the field of instructional technology is examined. Students are required to demonstrate competencies in research writing. Prerequisites: 6 semester hours of ISTC courses at the 500 to 600 level and written permission.

0601.697 SUPERVISED FIELD EXPERIENCES IN INSTRUCTIONAL TECHNOLOGY (3) The student must complete a project of a practical nature under the direction of a faculty advisor. A formal paper is required with departmental approval. The course may be taken twice with different emphases. Prerequisites: 0601.695, and written permission.

0601.699 MASTER'S THESIS (3-6) An original investigation, using an acceptable research method and design of a research problem, to be conducted under the direction of one or more faculty members. Credit granted only after thesis has been accepted by a student's thesis committee. Prerequisite: 15 semester hours of instructional technology courses at the 400 level or above, departmental chairperson approval, and written permission.

MATHEMATICS AND COMPUTER SCIENCE

Chairperson: Gerald O. Riggleman

Upper Division—Undergraduate and Graduate

- 1701.331 PROBABILITY (3)
- 1701.332 MATHEMATICAL STATISTICS (3)
- 1701.357 COLLEGE GEOMETRY (3)
- 1701.361 ALGEBRAIC STRUCTURES (4)
- 1701.365 LINEAR ALGEBRA (3)
- 1701.367 THEORY OF NUMBERS(3)
- 1701.373 CALCULUS III (4)
- 1701.377 MATHEMATICAL MODELS (3)
- 1701.421 APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3)

- 1701.424 TEACHING THE METRIC SYSTEM (1)
- 1701.425 METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (3)
- 1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3)
- 1701.429 READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3)
- 1701.435 NUMERICAL ANALYSIS I (3)
- 1701.436 NUMERICAL ANALYSIS II (3)
- 1701.451 MATH RESEARCH IN GRAPH THEORY (3)
- 1701.457 DIFFERENTIAL GEOMETRY I (3)
- 1701.461 ADVANCED TOPICS IN ALGEBRA (3)
- 1701.471 DIFFERENTIAL EQUATIONS (3)
- 1701.473 ADVANCED CALCULUS I (3)
- 1701.474 ADVANCED CALCULUS II (3)
- 1701.475 COMPLEX ANALYSIS (3)
- 1701.477 TOPOLOGY (3)
- 1701.480- SELECTED TOPICS IN MATHEMATICS AND
.489 STATISTICS (1-4)
- 1701.491 READINGS IN MATHEMATICS (1-3)

COMPUTER SCIENCE COURSES (0701)

Upper Division—Undergraduate and Graduate

- 0701.335 ADVANCED BUSINESS PROGRAMMING (3)
- 0701.338 COMPUTER ORGANIZATION (3)
- 0701.339 OPERATING SYSTEMS PRINCIPLES (3)
- 0701.355 SURVEY OF PROGRAMMING LANGUAGES (3)
- 0701.367 DISCRETE STRUCTURES (3)
- 0701.401 COMPUTERS IN SECONDARY EDUCATION (3)
- 0701.411 SYSTEMS AND DESIGN (3)
- 0701.415 IMPLEMENTATION OF PROGRAMMING LANGUAGES (3)
- 0701.431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3)
- 0701.437 FILE AND DATA STRUCTURES (3)
- 0701.457 DATABASE MANAGEMENT SYSTEMS (3)
- 0701.461 ARTIFICIAL INTELLIGENCE (3)
- 0701.471 COMPUTER GRAPHICS (3)

Graduate Division

1701.501 HISTORY OF MATHEMATICS (3) A historical survey of the classical roots of contemporary mathematics with selected topics chosen from number theory, geometry, analysis and algebra.

1701.521 SEMINAR IN TEACHING ARITHMETIC (3) Analysis of new topics, techniques, and materials in arithmetic instruction. Students may not receive credit for both 1701.521 and 1701.422, except by special permission from the graduate program coordinator and the chairperson of the mathematics department. Prerequisite: 1701.321 or 1701.323.

1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY SCHOOL TEACHERS (3) An investigation of recent curricula, methods, and materials for secondary school mathematics instructors. Prerequisite: 1701.423 or equivalent.

1701.530 STATISTICS—AN INTEGRATED APPROACH (4) Theory and practices of basic statistical analysis and inference with emphasis on analyzing and solving real problems using statistics. Descriptive statistics, introduction to probability, sampling distributions, estimation, hypotheses testing, regression, correlation, non-parametric techniques and analysis of variance, computer programming incorporated throughout. Prior knowledge of programming is not necessary. (Not open to those who have taken 1701.332.) Prerequisite: 1701.274.

1701.531 TOPICS IN PROBABILITY (3) Review of basic probability theory, types of convergence and limit theorems, elementary stochastic processes. Markov chains, birth and death processes. Gaussian processes. Examples from engineering, physical and social sciences, management and statistics. Prerequisite: 1701.331.

1701.553 TOPICS IN GEOMETRY (3) Axiomatic development of Euclidean, elliptic and hyperbolic geometries; the study of the analytic plane, the sphere and the Poincaré model as models for these axiomatic systems. Not open to students who have had 1701.353. Prerequisites: 1701.274 and 1701.361.

1701.561 ELEMENTS OF GALOIS THEORY (3) Review of elementary group theory, polynomial rings, algebraic field extensions. Galois theory, polynomial rings, algebraic field extensions. Galois theory for fields of characteristic zero, solution of polynomial equations by radicals, and other applications of the Galois theory. Prerequisite: 1701.361

1701.591 SEMINAR IN MATHEMATICAL APPLICATIONS (3) Survey with topics to be chosen from: linear programming theory of games, mathematical biology, econometrics, mathematical ecology, Fourier analysis, integral equations, partial differential equations, diffusion, stochastic processes, production theory, statistical mechanics, fluid dynamics. Prerequisite: 1701.373.

1701.595 INDEPENDENT STUDY IN MATHEMATICS (1-3) Directed independent study in selected areas of graduate level mathematics. Prerequisite: permission of instructor and graduate advisor.

MODERN LANGUAGES

Chairperson: Jorge A. Giro

FRENCH COURSES (1102)

Upper Division—Undergraduate and Graduate

- 1102.401 FRENCH PHONETICS (3)
- 1102.402 APPLIED FRENCH LINGUISTICS (3)
- 1102.421 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (3)
- 1102.422 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (3)
- 1102.425 FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3)
- 1102.431 FRENCH LITERATURE OF THE NINETEENTH CENTURY I (3)
- 1102.432 FRENCH LITERATURE OF THE NINETEENTH CENTURY II (3)
- 1102.437 WOMEN WRITERS IN TRANSLATION (3)
- 1102.441 FRENCH LITERATURE OF THE TWENTIETH CENTURY I (3)
- 1102.442 FRENCH LITERATURE OF THE TWENTIETH CENTURY II (3)
- 1102.451 FRENCH POETRY I (3)
- 1102.452 FRENCH POETRY II (3)
- 1102.561 FRENCH DRAMA I (3)

- 1102.462 FRENCH DRAMA II (3)
- 1102.470 SPECIAL TOPICS IN FRENCH (3)
- 1102.471 THE FRENCH NOVEL I (3)
- 1102.472 THE FRENCH NOVEL II (3)
- 1102.475 USE OF AUDIO-VISUAL TECHNIQUES IN MODERN
LANGUAGE TEACHING (3)
- 1102.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1102.487 TRAVEL AND STUDY ABROAD (4-15)
- 1102.491 DIRECTED READINGS IN FRENCH LITERATURE (3)
- 1102.492 DIRECTED READINGS IN FRENCH (3)

Graduate Division

1102.505 ETUDES ET TRAVAUX STYLISTIQUES (3) Practice in writing and comparison of style of various writers. Intensive and detailed textual explanation. Discussion, oral and written reports, conducted in French. Prerequisite: undergraduate degree in French.

1102.533 SEMINAR ON FRENCH CLASSICISM I (3) The origins and underlying ideas of classicism. Study of main classic writers, with shifting emphasis from year to year. Conducted in French. Prerequisite: undergraduate degree in French.

1102.534 SEMINAR ON FRENCH CLASSICISM II (3) The origins and underlying ideas of classicism. Study of main classic writers, shifting emphasis from year to year. Conducted in French. Prerequisite: undergraduate degree in French.

1102.538 SEMINAR IN EIGHTEENTH CENTURY FRENCH LITERATURE (3) The literature of the French Enlightenment, concentrating on one or two major authors, with shifting emphasis from year to year. Conducted in French. Prerequisite: undergraduate degree in French.

1102.539 THE ROMANTIC ERA IN FRANCE (3) Sources and theories of romanticism. Works of major French romantic writers, with shifting emphasis from year to year. Conducted in French. Prerequisite: undergraduate degree in French.

1102.543-544 PERSPECTIVE DE LA CRITIQUE LITTERAIRE EN FRANCE (3) A history of French literary criticism leading to the study of the various techniques and objectives of all literary criticism and analysis, ending in the application of these techniques by the student himself to selected works of French literature. Conducted in French. Prerequisite: undergraduate degree in French.

1102.571 SPECIAL TOPICS IN FRENCH LANGUAGE, LITERATURE AND CIVILIZATION (3) Grandes Mouvements Littéraires en France du XIX et XX Siècles. Prerequisite: undergraduate degree in French.

GERMAN COURSES (1103)

Upper Division—Undergraduate and Graduate

- 1103.401 GERMAN PHONETICS (3)
- 1103.427-
428 CLASSICISM I, II (3)
- 1103.431 ROMANTICISM (3)
- 1103.441 MODERN GERMAN LITERATURE (3)
- 1103.442 GERMAN LITERATURE SINCE 1945 (3)
- 1103.451 STUDIES IN THE GERMAN LYRIC (3)

- 1103.461 GERMAN DRAMA OF THE NINETEENTH AND TWENTIETH CENTURIES (3)
- 1103.465 GOETHE'S FAUST (3)
- 1103.470 SPECIAL TOPICS IN GERMAN (3)
- 1103.481 THE GERMAN NOVEL (3)
- 1103.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1103.491 DIRECTED READINGS IN GERMAN LITERATURE (3)
- 1103.492 DIRECTED READINGS IN GERMAN LITERATURE (3)

SPANISH COURSES (1105)

Upper Division—Undergraduate and Graduate

- 1105.401 SPANISH PHONETICS (3)
- 1105.402 SPANISH LINGUISTICS (3)
- 1105.417- THE GOLDEN AGE OF SPANISH
418 LITERATURE I, II (3)
- 1105.431 NINETEENTH-CENTURY SPANISH LITERATURE (3)
- 1105.435 NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE I (3)
- 1105.436 NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE II (3)
- 1105.437 ROMANTICISM IN SPANISH AMERICAN LITERATURE (3)
- 1105.441 TWENTIETH-CENTURY SPANISH LITERATURE I (3)
- 1105.442 TWENTIETH-CENTURY SPANISH LITERATURE II (3)
- 1105.443 TWENTIETH-CENTURY SPANISH-AMERICAN LITERATURE I (3)
- 1105.444 TWENTIETH-CENTURY SPANISH-AMERICAN LITERATURE II (3)
- 1105.451 SPANISH POETRY I (3)
- 1105.452 SPANISH POETRY II (3)
- 1105.461 SPANISH DRAMA I (3)
- 1105.462 SPANISH DRAMA II (3)
- 1105.470 SPECIAL TOPICS IN SPANISH (3)
- 1105.471 SPANISH NOVEL I (3)
- 1105.472 SPANISH NOVEL II (3)
- 1105.481 SPANISH SHORT STORY (3)
- 1105.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1105.491 DIRECTED READING IN SPANISH LITERATURE (3)
- 1105.492 DIRECTED READING IN SPANISH (3)

Graduate Division

1105.505 SPANISH STYLISTICS (3) Intensive and detailed analysis of selected texts. Discussion and oral reports. Required weekly composition. Prerequisite: undergraduate degree in Spanish.

1105.536 POETRY AND DRAMA OF THE SPANISH GOLDEN AGE (3) Graduate study of major writers of the Siglo de Oro with shifting emphasis from year to year. Conducted in Spanish. Prerequisite: undergraduate degree in Spanish.

1105.553 MIGUEL DE CERVANTES (3) Don Quijote de la Mancha and the Novelas Ejemplares, reading and detailed analysis. Prerequisite: undergraduate degree in Spanish.

1105.570 SPECIAL TOPICS IN SPANISH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisite: undergraduate degree in Spanish or equivalent.

1105.585 SEMINAR IN MODERN LITERATURE (3) Discussion of a figure or topic in modern Spanish or Spanish-American Literature with changing emphasis from year to year. Prerequisite: undergraduate degree Spanish or equivalent.

MUSIC

Chairperson: David Marchand

Graduate Departmental Coordinator, Music Education Program:

Clifford D. Alper

MUSIC COURSES (MUSIC 1005; MUSIC APPLIED 1004; MUSIC APPRECIATION 0832)

Upper Division—Undergraduate and Graduate

1004.471-72 BRASS PRIVATE LESSONS (1-3)

1004.473-74 ORGAN PRIVATE LESSONS (1-3)

1004.475-76 PERCUSSION PRIVATE LESSONS (1-3)

1004.477-78 PIANO PRIVATE LESSONS (1-3)

1004.479-80 STRING PRIVATE LESSONS (1-3)

1004.481-82 VOICE PRIVATE LESSONS (1-3)

1004.483-84 WOODWIND PRIVATE LESSONS (1-3)

1004.485-86 GUITAR PRIVATE LESSONS (1-3)

1004.487-88 COMPOSITION PRIVATE LESSONS (1-3)

Graduate Division

1004.571-572 BRASS PRIVATE LESSONS (1-3) Private lessons in brass. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.573-574 ORGAN PRIVATE LESSONS (1-3) Private lessons in organ. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.575-576 PERCUSSION PRIVATE LESSONS (1-3) Private lessons in percussion. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.581-582 PIANO PRIVATE LESSONS (1-3) Private lessons in piano. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: consent of department chairperson.

1004.579-580 STRING PRIVATE LESSONS (1-3) Private lessons in strings. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.581-582 VOICE PRIVATE LESSONS (1-3) Private lessons in voice. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.583-584 WOODWIND PRIVATE LESSONS (1-3) Private lessons in woodwinds. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.585-586 GUITAR PRIVATE LESSONS (1-3) Private lessons in guitar. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.587-588 COMPOSITION PRIVATE LESSONS (1-3) Private lessons in composition. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

1004.589-590 HARPSICHORD PRIVATE LESSONS (1-2) Private lessons in Harpsichord. Fee of \$50.00 per semester hour. One half-hour lesson per week. May be repeated for further credit. Prerequisite: permission of department chairperson.

Upper Division—Undergraduate and Graduate

- 1005.401 MUSIC PRIOR TO 1600 (3)
- 1005.402 MUSIC OF THE BAROQUE PERIOD (3)
- 1005.403 MUSIC OF THE CLASSICAL PERIOD (3)
- 1005.404 MUSIC OF THE ROMANTIC PERIOD (3)
- 1005.405 CONTEMPORARY MUSIC (3)
- 1005.406 SURVEY OF SOLO VOICE LITERATURE (3)
- 1005.407 TONAL COUNTERPOINT (3)
- 1005.408 MODAL COUNTERPOINT (3)
- 1005.409 HISTORY AND LITERATURE OF GUITAR, LUTE AND VIHUELA (3)
- 1005.410 WORKSHOP IN CLASS PIANO PEDAGOGY (2)
- 1005.411 SURVEY OF OPERA (3)
- 1005.412 WIND ENSEMBLE (1)
- 1005.413 SYMPHONIC LITERATURE (3)
- 1005.415 THE CONCERTO (3)
- 1005.417 PIANO LITERATURE (3)
- 1005.418 WORKSHOP IN CLASS PIANO PEDAGOGY (2)
- 1005.420 WORKSHOP IN MUSIC INSTRUMENT REPAIR AND MAINTENANCE (1)
- 1005.421 AMERICAN MUSIC (3)
- 1005.424 ADVANCED WOODWINDS (DOUBLE REEDS) (3)
- 1005.427-428 JAZZ ARRANGING I, II (3, 3)
- 1005.429-430 JAZZ IMPROVISATION I, II (3, 3)
- 1005.431 ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3)
- 1005.432 SEMINAR IN ADVANCED INSTRUMENTAL CONDUCTING AND INTERPRETATION (1)
- 1005.435 FORM AND ANALYSIS (3)
- 1005.449-450 STRING ENSEMBLE (1, 1)
- 1005.459-460 TOWSON STATE UNIVERSITY CHORAL SOCIETY (1, 1)
- 1005.467-468 ORCHESTRA (1, 1)
- 1005.469-470 SYMPHONY BAND (1, 1)
- 1005.471-479 SPECIAL TOPICS IN MUSIC LITERATURE (3)
- 1005.493 INDEPENDENT RESEARCH IN MUSIC LITERATURE (3)

Graduate Division

1005.531 ADVANCED THEORY (3) Continued development of skills in more advanced melodic, harmonic and rhythmic aspects of music through hearing, playing and writing. Prerequisite: 1005.232.

1005.539 MUSIC COMPOSITION (3) Analysis and discussion of works of major composers. Writing of original compositions in vocal and instrumental idioms. Prerequisite: 1905.232, 1905.335, 1905.435.

1005.562 SEMINAR IN CHORAL (VOCAL) MUSIC (3) Comparative analysis of current methods and materials used in schools and colleges. Choral conducting and repertoire. Style interpretation, tone quality diction, rehearsal and conducting techniques are analyzed. Prerequisite: admission to the graduate program

1005.595 RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (3) The application of methods of research to problems in the field of music and music education, the preparation of bibliographies and specialized techniques for the location, collection and treatment of data and a written exposition of research projects in the area of the student's major interest. Prerequisite: admission to the graduate program.

1005.697 GRADUATE PROJECT IN MUSIC (3) Thesis project includes graduate recital or musical composition instead of thesis.

1005.699 MASTER'S THESIS IN MUSIC (3)

Minlmester only

1005.002 EDITING BRASS MUSIC: RENAISSANCE AND BAROQUE (3)

1005.007 WORKSHOP: ASPECTS OF TROMBONE PERFORMANCE (1)

Music Education Courses (0832)

0832.002 AN INTRODUCTION TO THE KODALY APPROACH TO TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3)

0832.408 ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (3)

0832.417 CHORAL WORKSHOP IN ELEMENTARY & SECONDARY SCHOOL MUSIC (2)

0832.419 WORKSHOP: ASPECTS OF STRING TEACHING (3)

0832.421 WORKSHOP: TEACHING GUITAR IN THE CLASSROOM (2)

0832.439 ADVANCED WORKSHOP IN ELEMENTARY AND JUNIOR HIGH SCHOOL GENERAL MUSIC (2)

Graduate Division

0832.501 SEMINAR IN CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (3) Seminar in current philosophies and objectives of music in the schools, and the scope and sequence of music curricula, vocal and instrumental, on the elementary and secondary levels. Prerequisite: admission to the graduate program.

OCCUPATIONAL THERAPY

Chairperson: Marie-Louise Blount

OCCUPATIONAL THERAPY (1208)

1208.428 O.T. ORGANIZATION, ADMINISTRATION, AND TEACHING (3)

1208.470-479 SPECIAL TOPICS IN OCCUPATIONAL THERAPY (1-3)

Graduate Division

1208.501 THEORY AND PRACTICE OF PSYCHOSOCIAL OCCUPATIONAL THERAPY (3) Discussion and application of current and classical psychosocial theories underlying the practice of occupational therapy. Theories are discussed and analyzed in terms of current and projected models of clinical practice. Practical strategies for development of clinical skills based on theoretical frameworks are discussed and applied to both derived and actual patient case histories. Prerequisites: permission of instructor.

1208.591 DIRECTED READINGS IN OCCUPATIONAL THERAPY (1-3) Guided review of literature to explore in depth subjects related to occupational therapy and practice. Prerequisite: graduate standing.

PHILOSOPHY AND RELIGION

Chairperson: Arthur Madden

PHILOSOPHY AND RELIGION COURSES (1509)

Upper Division—Undergraduate and Graduate

- 1509.301 PHILOSOPHIES OF INDIA (3)
- 1509.302 PHILOSOPHIES OF CHINA AND JAPAN (3)
- 1509.315 ARCHAEOLOGY OF PALESTINE AND TRANS-JORDANIA (3)
- 1509.317 THE HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE (3)
- 1509.322 LATE CLASSICAL AND MEDIEVAL PHILOSOPHY (3)
- 1509.323 LATE CLASSICAL AND RENAISSANCE PHILOSOPHY (3)
- 1509.324 MODERN PHILOSOPHY (3)
- 1509.325 SCHOOLS OF CONTEMPORARY PHILOSOPHY (3)
- 1590.326 AMERICAN PHILOSOPHY (3)
- 1509.331 CONCEPTS OF WOMAN: A HISTORICAL APPROACH (3)
- 1509.339 THEORY OF KNOWLEDGE (3)
- 1509.341 ETHICS (3)
- 1509.343 AESTHETICS (3)
- 1509.351 CONTEMPORARY ETHICAL PROBLEMS (3)
- 1509.354 INTERPRETATIONS OF THE BIBLE: OLD TESTAMENT (3)
- 1509.355 INTERPRETATIONS OF THE BIBLE: NEW TESTAMENT (3)
- 1509.361 ETHICS OF MEDICINE AND THE LIFE SCIENCES (3)
- 1509.371 CONTEMPORARY ETHICAL PROBLEMS: BUSINESS AND SOCIETY (3)
- 1509.380- PHILOSOPHICAL TOPICS (3)
- .389
- 1509.413 PHENOMENOLOGY (3)
- 1509.415 MARXISM (3)
- 1509.417 EXISTENTIALISM (3)
- 1509.440- PHILOSOPHICAL SYSTEMS (3-3)
- .449
- 1509.451 PHILOSOPHY OF RELIGION (3)
- 1509.457 COMPARATIVE RELIGION I (3)
- 1509.458 COMPARATIVE RELIGION II (3)
- 1509.470- PHILOSOPHICAL PROBLEMS (3-3)
- 479

PHYSICAL EDUCATION

Chairperson: Robert G. Zeigler

PHYSICAL EDUCATION COURSES (0835)

Upper Division—Undergraduate and Graduate

- 0835.311 KINESIOLOGY (3)
- 0835.313 PHYSIOLOGY OF EXERCISE (3)
- 0835.412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3)
- 0835.415 ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES (3)
- 0835.419 SWIMMING AND POOL MANAGEMENT (3)
- 0835.421 PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3)
- 0835.423 ADAPTIVE PHYSICAL EDUCATION (3)
- 0835.425 TEACHING DANCE IN GRADES K-12 (3)
- 0835.427 PERCEPTUAL-MOTOR DEVELOPMENT IN PHYSICAL EDUCATION (3)
- 0835.430 MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3)
- 0835.435 PROGRAMS IN OUTDOOR EDUCATION (3)
- 0835.441 THE SPORTSWOMAN IN AMERICAN SOCIETY
- 0835.451 HISTORY OF AMERICAN SPORT (3)
- 0835.453 ORGANIZATION AND ADMINISTRATION OF ATHLETICS (3)
- 0835.470-479 SELECTED TOPICS IN PHYSICAL EDUCATION (1-3)
- 0835.494 TRAVEL STUDY (3)
- 0835.496 INDEPENDENT STUDY (1-3)

Graduate Division

0835.509 PSYCHOLOGY OF MOTOR LEARNING (3) Investigation of the various psychological factors that affect the acquisition of motor skills. Emphasis will be focused on teaching and practice methodology, motivational factors, learning theories, physical and motor considerations, anxiety, stress, tension, competition, mental practice, transfer of training, level of aspiration, etc. Prerequisite: consent of graduate coordinator or undergraduate degree in physical education

0835.512 SIGNIFICANT PERIODS IN PHYSICAL EDUCATION (3) An examination of the influence of Greek, Roman, European, and English concepts of physical education upon American physical education. Emphasis on the formation and development of American concepts of physical education. Prerequisite: consent of graduate coordinator or undergraduate degree in physical education.

0835.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory application of the physiological factors that affect human efficiency before, during and after exercise. Factors to be investigated include: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisites: consent of department chairperson, consent of graduate coordinator, or undergraduate degree in physical education.

0835.521 EDUCATIONAL GYMNASTICS (3) Analysis of theoretical and historical basis for use of problem-solving and individualized methods in teaching gymnastic movement. Development of programs and materials for a variety of developmental levels. In-depth review of literature. Prerequisite: undergraduate major in physical education, or consent of graduate coordinator.

0835.530 MECHANICAL ANALYSIS OF MOVEMENT (3) Various basic mechanical principles are analyzed as they relate to efficient human movement. The physical laws to be studied are leverage, motion, projectiles, gravity, buoyancy, and equilibrium. The design of the course will be research-oriented. Prerequisites: Kinesiology 0835.311, and undergraduate degree in physical education and consent of the graduate coordinator.

0835.533 ADMINISTRATION AND SUPERVISION OF PHYSICAL EDUCATION (3) Designed to acquaint the student with the scope, problems and techniques of administering and supervising a program of physical education. The work of the chairperson of the department, problems of personnel, program, facilities, and evaluation will be discussed. Prerequisites: undergraduate degree in physical education or consent of graduate coordinator.

0835.539 CRITICAL ANALYSIS OF CURRENT LITERATURE IN PHYSICAL EDUCATION (3) Designed to facilitate the depth and quality of the knowledge of students, teachers, administrators, supervisors and research personnel in their assessment and investigation of the following aspects of the physical education profession; contemporary leaders, books, journals, periodicals, projects, trends, issues, innovations, etc. Prerequisite: undergraduate degree in physical education or consent of graduate coordinator.

0835.541 EVALUATIVE TECHNIQUES IN PHYSICAL EDUCATION (3) Designed primarily to develop analytical ability in the administration, assessment, and interpretation of test results. Research and laboratory application involves the evaluation of measurements of classification indexes, power agility, balance, flexibility, kinesthetic perception, speed and reaction time, strength, muscular endurance, cardiovascular conditions, sport skills, etc. Prerequisites: undergraduate degree in physical education and consent of graduate coordinator.

0835.545 FACILITIES AND EQUIPMENT FOR PHYSICAL EDUCATION (3) Designed to cover the principles of programming and planning facilities for physical education. Indoor and outdoor activity areas will be studied, as well as their maintenance. Procedure related to selection, purchase and care of equipment will be included. Prerequisites: undergraduate degree in physical education and consent of the graduate coordinator.

0835.551 COMPARATIVE PHYSICAL EDUCATION—CONTEMPORARY AND INTERNATIONAL (3) A comparative analysis of contemporary patterns of physical education in selected countries throughout the world. Prerequisites: undergraduate major in physical education and consent of graduate coordinator.

0835.553 CONTEMPORARY PHYSICAL EDUCATION CURRICULUM (3) Curriculum design for elementary and secondary school physical education. Examination of current literature pertinent to aims, objectives, contents, and method of physical education. Prerequisites: undergraduate degree in physical education and consent of graduate coordinator.

0835.561 OUTDOOR LEISURE (3) Man and leisure in a changing society and their impact on the natural environment. Emphasis on developing outdoor recreation and adventure skill interest, teaching and leadership techniques. The course includes discussions on the link between outdoor leisure and activities and outdoor education programs.

0835.585 RESEARCH SEMINAR (3) Individual research on a significant problem through consultation with designated faculty members. Focus will be on the experimental design and the proper structural format for project or thesis formulation. Prerequisites: EDUC 0801.691, undergraduate degree in physical education and consent of graduate coordinator.

PHYSICS

Chairperson: Eddie Loh

PHYSICAL SCIENCE COURSES (1901)

Upper Division—Undergraduate and Graduate

- 1901.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3)
- 1901.321 STRUCTURAL GEOLOGY (3) This course involves the identification and analysis of tectonic forms to determine the physical conditions of formation and the context of historical geological events in which they occur. Prerequisite: physical geology, and Physics 211 or 221.
- 1901.322 GEOMORPHOLOGY OF THE EASTERN UNITED STATES (3)
- 1901.331 MINEROLOGY (4)
- 1901.333 PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4)
- 1901.335 LASER AND HOLOGRAPHY (3)
- 1901.401 ADVANCED LABORATORY IN PHYSICAL SCIENCE (2)
- 1901.405 FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3)
- 1901.411 PHYSICAL SCIENCE FOR TEACHERS (3)
- 1901.441 OPTICAL MINEROLOGY AND PETROGRAPHY (3)
- 1901.443 SEDIMENTOLOGY AND SEDIMENTARY PETROLOGY (3)
- 1901.470-479 SPECIAL TOPICS IN PHYSICAL SCIENCE (1-4)
- 1901.495 COURSE RESEARCH IN 400-LEVEL COURSES

PHYSICS COURSES (1902)

Upper Division—Undergraduate and Graduate

- 1902.301 MECHANICS (4)
- 1902.302 THERMODYNAMICS AND KINETIC THEORY (3)
- 1902.305 ELECTRICITY AND MAGNETISM (4)
- 1902.311 MODERN PHYSICS (4)
- 1902.313 HISTORY AND PHILOSOPHY OF PHYSICS (2)
- 1902.315 MATHEMATICS OF MOTION (4)
- 1902.321 INTRODUCTORY MATHEMATICAL PHYSICS (3)
- 1902.331 MECHANICS II (4)
- 1902.335 BASIC ELECTRONICS (4)
- 1902.337 DIGITAL ELECTRONICS (4)
- 1902.381 INTERMEDIATE PHYSICS LABORATORY I (2)
- 1902.382 INTERMEDIATE PHYSICS LABORATORY II (2)
- 1902.395 COURSE RESEARCH IN 300-LEVEL COURSES

- 1902.401 PHYSICS SEMINAR III (1-1)
.402
- 1902.411 PHYSICAL OPTICS (3)
- 1902.435 ELECTRONICS (3)
- 1902.437 INTRODUCTION TO MICROPROCESSOR-BASED DIGITAL
SYSTEM (3)
- 1902.451 NUCLEAR PHYSICS (3)
- 1902.471 INTRODUCTORY QUANTUM MECHANICS (3)
- 1902.472 INTRODUCTION TO STATISTICAL MECHANICS (3)
- 1902.490 INDEPENDENT STUDY IN PHYSICS (1-4)
- 1902.491 DIRECTED READINGS (1-4)

SCIENCE EDUCATION COURSES (0834)

Upper Division—Undergraduate and Graduate

- 0834.371 TEACHING SCIENCE IN EARLY CHILDHOOD (2)
- 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3)
- 0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)
- 0834.470-
.475 SEQUENTIAL SCIENCE MODULES FOR THE
ELEMENTARY SCHOOL TEACHER (1-3)
- 0834.488 AEROSPACE EDUCATION WORKSHOP (3)

Graduate Division

0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organizing, teaching, and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: elementary teaching.

Political Science

Chairperson: Pritam Merani

POLITICAL SCIENCE COURSES (2207)

Upper Division—Undergraduate and Graduate

- 2207.303 THEORY OF INTERNATIONAL POLITICS (3)
- 2207.305 URBAN GOVERNMENT AND POLITICS (3)
- 2207.307 CONTEMPORARY INTERNATIONAL POLITICS (3)
- 2207.337 COMPARATIVE GOVERNMENT OF FOREIGN POWERS:
THE WESTERN WORLD (3)
- 2207.338 COMPARATIVE GOVERNMENT OF FOREIGN POWERS:
RUSSIA AND THE EAST (3)
- 2207.339 COMPARATIVE POLITICAL SYSTEMS (3)
- 2207.341 AFRICAN GOVERNMENT AND POLITICS (3)
- 2207.351 THE GOVERNMENT AND POLITICS OF LATIN AMERICA
(3)
- 2207.355 THE LATIN AMERICAN POLICY OF THE UNITED
STATES (3)
- 2207.359 POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3)
- 2207.361 POLITICAL BEHAVIOR (3)
- 2207.375 PUBLIC ADMINISTRATION (3)
- 2207.381 THE PRESIDENCY (3)
- 2207.383 CONGRESS (3)

- 2207.401 INTRODUCTION TO LAW (3)
- 2207.417 AMERICAN POLITICAL PARTIES (2)
- 2207.418 CONSTITUTIONAL LAW (3)
- 2207.427 POLITICAL THEORY (2)
- 2207.428 POLITICAL THEORY II (3)
- 2207.430 POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3)
- 2207.432 UNITED STATES—SOVIET RELATIONS (3)
- 2207.435 AFRICA IN WORLD POLITICS (3)
- 2207.437 CASTRO AND THE CUBAN REVOLUTION (3)
- 2207.439 UNITED STATES FOREIGN POLICY IN SOUTHEAST ASIA (3)
- 2207.441 CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3)
- 2207.445 UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3)
- 2207.450 GROUP POLITICS AND PUBLIC OPINION (3)
- 2207.455- INTERNATIONAL LAW AND ORGANIZATION I, II (3-3)
- .456
- 2207.457 USE OF FORCE IN INTERNATIONAL LAW (3)
- 2207.461 RESEARCH METHODS IN POLITICAL BEHAVIOR (3)
- 2207.463 SCOPE AND METHODS OF POLITICAL SCIENCE (3)
- 2207.465 EDITORIAL WORK—TOWSON STATE JOURNAL OF INTERNATIONAL AFFAIRS (1)
- 2207.470- SPECIAL TOPICS IN POLITICAL SCIENCE (3)
- .479
- 2207.482 SEMINAR IN POLITICAL SCIENCE (3)
- 2207.483 SEMINAR: POLITICS AND THE NEWS MEDIA (3)
- 2207.484 SEMINAR: POLITICS AND THE BUDGETARY PROCESS (3)
- 2207.485 DEMOCRATIC THEORY SEMINAR (3)
- 2207.490 INDEPENDENT STUDY (3)
- 2207.491 SEMINAR IN CONTEMPORARY UNITED STATES FOREIGN POLICY (3)
- 2207.493 PRACTICUM IN POLITICS (3-9)



PSYCHOLOGY

Chairperson: Herbert Petri

Graduate Departmental Coordinator: Barbara R. Slater

PSYCHOLOGY COURSES (2001)

Upper Division—Undergraduate and Graduate

- 2001.305 PSYCHOLOGY OF LEARNING (3)
- 2001.309 BEHAVIORAL PHARMACOLOGY (3)
- 2001.311 BEHAVIOR MODIFICATION I (3)
- 2001.315 MOTIVATION (3)
- 2001.317 SENSATION AND PERCEPTION (3)
- 2001.323 PSYCHOLOGY OF WOMEN: SEX DIFFERENCES AND SIMILARITIES (3)
- 2001.325 SOCIAL PSYCHOLOGY (3)
- 2001.330 PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)
- 2001.341 ENVIRONMENTAL PSYCHOLOGY(3)
- 2001.350 PERSONALITY (3)
- 2001.361 ABNORMAL PSYCHOLOGY (3)
- 2001.381 READINGS IN PSYCHOLOGY (1-2)
- 2001.385 SEMINAR IN PSYCHOLOGY (1-3)
- 2001.401 HUMAN LEARNING (3)
- 2001.403 PSYCHOLOGY OF INFANCY AND CHILDHOOD (3)
- 2001.404 ADOLESCENT PSYCHOLOGY (3)
- 2001.405 THE PSYCHOLOGY OF AGING (3)
- 2001.407 PSYCHOLOGY OF READING (3)
- 2001.409 ORGANIZATIONAL PSYCHOLOGY (3)
- 2001.411 TESTS AND MEASUREMENT (3)
- 2001.416 PERSONALITY MEASUREMENT (3)
- 2001.421 APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3)
- 2001.427 INTRODUCTION TO INTERVIEWING TECHNIQUES I (3)
- 2001.428 INTERVIEWING TECHNIQUES II (3)
- 2001.429 INTRODUCTION TO THE COUNSELING OF MINORITY GROUPS (3)
- 2001.431 GROUP DYNAMICS (3)
- 2001.435 SUPERVISED FIELD EXPERIENCE (3-6)
- 2001.439 THE INITIAL INTERVIEW (3)
- 2001.441 INFORMATION SERVICE IN COUNSELING AND GUIDANCE (3)
- 2001.453 ISSUES IN MENTAL HEALTH INTERVENTION (2)
- 2001.460 COMPARATIVE PSYCHOLOGY (3)
- 2001.461 COGNITIVE PSYCHOLOGY(3)
- 2001.462 LABORATORY IN COMPARATIVE PSYCHOLOGY (3)
- 2001.465 PHYSIOLOGICAL PSYCHOLOGY (3)
- 2001.466 LABORATORY IN PHYSIOLOGICAL PSYCHOLOGY (2)
- 2001.467 ADULT PSYCHOLOGY (3)
- 2001.471 INTRODUCTION TO THE EXCEPTIONAL CHILD (3)
- 2001.475 IDENTIFICATION AND TREATMENT OF SENSORY DISABILITIES IN THE SCHOOLS (3)
- 2001.480 SYSTEMS OF PSYCHOLOGY (3)
- 2001.485 EXPERIMENTAL DESIGN (4)
- 2001.491 INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3)

Minlmeister only

2001.005 SEXUAL COUNSELING (3)

Graduate

2001.505 COUNSELING TECHNIQUES (3) This course will provide students with knowledge of counseling skills which are essential in facilitating client self awareness. Course emphasis will be to train the student in practical skills through demonstration and role playing with feedback in behavioral performance.

2001.507 APPLIED THEORIES OF COUNSELING (3) This course is to acquaint student with those counseling theorists whose applied methodology has been successful in the treatment of various client populates. Lecture, discussion of simulated cases, demonstrations and role playing will be used to train students in application of these methodologies in a field setting.

2001.509 COUNSELING PSYCHOLOGY—PRE-PRACTICUM (3) An introduction to ethics, issues, and the history of counseling psychology. Counseling with children and adults, various points of view, techniques for introducing therapeutic movement, and the essentials necessary for effective counseling. Prerequisite: must be a psychology major planning to enter one of the helping professions or a graduate student in counseling, or have consent of the counseling program coordinator.

2001.511 DEVELOPMENTAL PSYCHOLOGY (3) Psychological structures and functions in human development. Theoretical and research approaches. Prerequisite: 2001.201 or equivalent.

2001.513 COMMUNITY MENTAL HEALTH COUNSELING (3) To expose students to the general working of various types of community health services and the relationships between those services; the responsibility of counseling in a mental health center; and the area of mental health consultant. Emphasis will be given to the application of counseling skills in a mental health setting. The course is intended to be a pre-practicum. Prerequisite: 2001.430.

2001.515 INTRODUCTION TO RESEARCH METHODS IN COUNSELING (3) An introduction to the principal methods of behavioral research emphasizing concepts rather than statistical procedures. The course should prepare counselors to evaluate methods, designs, and results of counseling research. Prerequisite: graduate standing in counseling.

2001.520 INDIVIDUAL INTELLIGENCE TESTING (3) Construction, standardization, administration, scoring and interpretation of the Wechsler Individual Intelligence Tests, the Stanford-Binet Intelligence Scale, Human Figure Drawings, the Bender-Gestalt, the Gray Oral Reading Test and the Wide Range Achievement Test. Open to MA candidates in school or clinical areas. Prerequisites: 2001.111, 2001.411, and consent of coordinator.

2001.521 ADVANCED EDUCATIONAL PSYCHOLOGY (3) Survey of current research in child psychology, learning, mental hygiene, and tests and measurements. Emphasis on critical analysis of studies. Prerequisite: 2001.511

2001.531 ADVANCED ABNORMAL PSYCHOLOGY (3) Current and historical perspectives of psychopathology. Emphasis on varied approaches in contemporary schools. Methods of assessment and treatment. Prerequisite: 2001.230 or 2001.361.

2001.540 MENTAL HYGIENE IN EDUCATION (3) Principles of mental

hygiene and their application to the educational setting. Major emphasis on wholesome personality development. Prerequisite: 2001.511.

2001.543 INTRODUCTION TO SCHOOL PSYCHOLOGY (1) An introduction to ethics and issues in school psychology and preparation of the student to move efficiently through the program. This course should be taken at the beginning of the student's course of studies. Open only to MA candidates in the school psychology program with consent of the coordinator.

2001.545 COPING STRATEGIES IN THE CLASSROOM (3) Practical application of psychological principles and concepts as they relate directly to the classroom. This course is designed to increase teacher awareness of the teacher's impact on the classroom members with specific emphasis on individual differences. This course is for teachers, counselors and administrators. Prerequisite: 1001.551.

2001.550 DIAGNOSTIC TECHNIQUES IN EDUCATION (3) Use of standardized and teacher-constructed instruments for diagnostic and instructional purposes. Prerequisite: 2001.511, 2001.411 or equivalent.

2001.551 TECHNIQUES OF GROUP INTERVENTION (3) A theoretical and experiential introduction to the techniques available for use with clients. Emphasis will be on learning the techniques through action participation. Prerequisites: M.A. candidate in school, clinical, or counseling areas, and consent of coordinator.

2001.553 RESEARCH ISSUES IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides for analysis of major issues in school and/or clinical psychology through the study of selected research. Prerequisite: 2001.111. Open only to MA candidates in school or clinical areas with consent of the coordinator.

2001.561 FOUNDATIONS OF REHABILITATION COUNSELING (3) The development of rehabilitation programs; their legal basis and historical background. The roles of medical, psychological, educational and community resources in the rehabilitation program are explored. Client eligibility, determination, and counselor responsibilities will be reviewed. Prerequisite: 2001.101

2001.563 SYSTEMS OF PSYCHOTHERAPY (3) The course is designed to acquaint students with the more prominent schools of psychotherapy. Particular emphasis is placed on the psychotherapeutic aspect of education and clinical settings. Prerequisites: 2001.350, 2001.361, 94 2001.230, 2001.531.

2001.565 PSYCHOTHERAPY AND BEHAVIOR CHANGE I (3) The first of a two-semester sequence designed to acquaint the student through readings, lectures, and actual experience with the various theories and techniques currently utilized in behavior change, including individual psychotherapy, family therapy, transactional analysis, rational emotive therapy and behavior modification. Psychotherapy and Behavior Change I may be taken without Psychotherapy and Behavior Change II. Prerequisite: graduate standing in school or clinical psychology tracks. Requires consent of coordinator.

2001.566 PSYCHOTHERAPY AND BEHAVIOR CHANGE II (3) The second of a two-semester sequence focused on the continued analysis of major psychotherapy approaches. Each student will conduct an intensive examination of a single psychotherapeutic approach. A seminar paper and a class presentation of the paper will be required. Open to students with a master's degree who have completed the equivalent of Psychotherapy and Behavior Change I. (2001.565) Requires consent of coordinator.

2001.567 PSYCHO-SOCIAL ASPECTS OF DISABILITY (3) The effect of the psychosocial milieu on the disabled person's self-concept will be considered, and approaches to facilitating autonomy and self-actualizing goals in the disabled will be discussed. Prerequisite: graduate standing in psychology or consent of instructor.

2001.568 MEDICAL ASPECTS OF DISABILITY (3) For students in rehabilitation counseling and related areas. Structure and function of bodily systems and implications of physical disabilities in coping with the problems of daily living are studied. Prerequisite: 2001.101.

2001.560 THE PSYCHOLOGICAL ASPECTS OF HEARING LOSS (3) An examination of the psychological problems unique to the deaf/hearing disabled, with special emphasis on communication, relationship, evaluation and vocational issues. Prerequisite: graduate standing.

2001.570 REFERRAL RESOURCES FOR THE SCHOOL-AGE CHILD (3) A study of referral services for the enhancement of the emotional, vocational and behavioral adaptation of children in need of services beyond the classroom situation. The course attempts to give direct knowledge to the student of all such specialized facilities, both school- and community-sponsored. Prerequisite: 2001.511.

2001.573 ADVANCED EXPERIMENTAL PSYCHOLOGY I (4) The first semester is comprised of experimentation in the field of human behavior, and the second semester will emphasize experimentation in the field of animal behavior. Prerequisites: 2001.111, 2001.264 or equivalent; consent of department.

2001.574 ADVANCED EXPERIMENTAL PSYCHOLOGY II (4) The first semester is composed of experimentation in the field of human behavior and the second semester will emphasize experimentation in the field of animal behavior. Prerequisites: 2001.111, 2001.261 or equivalent, consent of department.

2001.575 PROSEMINAR I (3) An intensive survey of basic issues and concepts in learning, motivation, and physiology. Prerequisite: 2001.261 or equivalent.

2001.576 PROSEMINAR II (3) An intensive survey of basic issues and concepts in social, developmental, personal, and abnormal psychology. Prerequisite: 2001.261 or equivalent.

2001.577 LEARNING (3) A thorough coverage of major learning theories and models. Prerequisite: 2001.305 or consent of instructor.

2001.579 SPECIAL TOPICS SEMINAR (1-3) Exploration of current developments in psychology. Topics dependent upon student and faculty interest. Students may take the special topics seminar more than once for credit as long as the topic differs from previous seminar discussions.

2001.581 ADVANCED HISTORY AND SYSTEMS OF PSYCHOLOGY (3) Ancient and modern psychological history—discussion of ancient history will draw heavily from both philosophy and physiology; discussion of modern history will develop psychology in various countries. The analysis of systems will include a study of functionalism, structuralism, behaviorism, Gestalt and psychoanalysis.

2001.584 COLLEGE TEACHING SEMINAR (3) Materials and procedures for producing successful students in lower level courses will be explored.

2001.585 COLLEGE TEACHING PRACTICUM (3) Supervised teaching of introductory psychology. Prerequisite: 2001.584

2001.587 ADVANCED EXPERIMENTAL DESIGN I (3) An advanced treatment of descriptive and inferential statistical methods and design considerations. Prerequisite: 2001.121 or equivalent.

2001.588 ADVANCED EXPERIMENTAL DESIGN II (3) An in-depth treatment of advanced analysis of variance designs and related techniques. Prerequisite: 2001.587 or equivalent.

2001.589 MULTIVARIATE METHODS (3) Multivariate statistical methods useful in behavioral scientific research. Topics: correlation, regression, factor analysis, discriminant analysis. Prerequisite: 2001.587.

2001.591 PROJECTIVE TECHNIQUES I (3) This is the first of a two-course sequence dealing with projective techniques. Credit will be awarded only upon completion of the first and second semesters of the sequence. The first semester emphasizes an introduction to the administration, scoring and interpretation of projectives in current clinical use. Open only to MA candidates in school or clinical areas, with consent of the coordinator.

2001.592 PROJECTIVE TECHNIQUES II (3) The second of a two-semester sequence in projective techniques. This semester emphasizes the interpretation and appropriate transmission of projective data. Particular emphasis will be placed on the evaluation of learning problems. Prerequisite: 2001.591. Open only to MA candidates in school or clinical areas with consent of the coordinator.

2001.593 INTERNSHIP IN COUNSELING (3) Experiences vary according to track; however, this is a broad but intensive experience within a counseling facility involving exposure to the many facets of a mental health professional, including administrative and record-keeping duties; individual and group counseling observations and experiences; referral resources, etc. Prerequisites: student must have been advanced to degree candidacy and obtain consent of the instructor.

2001.597 PRACTICUM IN CLINICAL PSYCHOLOGY (3) Supervised experience in psychological interviewing, assessment, and psychotherapy. This is an intensive practicum in which students will meet for individualized supervision with the practicum instructor. Prerequisites: 2001.520, 591, 592; M.A. candidacy in clinical psychology and consent of coordinator. Only open to students who have advanced to degree candidacy.

2001.605 PRINCIPLES OF GUIDANCE (3) Aims at establishing a philosophy and gaining a knowledge of the principles of guidance. Includes an introduction to the literature of the field. Prerequisite: 2001.511 or the equivalent.

2001.606 INTRODUCTION TO CAREER DEVELOPMENT (3) This course is designed to familiarize students with aspects of career development, to introduce them to a variety of relevant resources and media and to assist them in integrating this knowledge by planning a program of career development for a specific group.

2001.607 INFORMATION SERVICE IN GUIDANCE & COUNSELING (3)

Provides students knowledge of educational and vocational opportunities and community referral sources. Includes the evaluation, classification and use of such information in a guidance and counseling program. Prerequisite: 2001.425 or its equivalent.

2001.608 MEDIA IN CAREER EDUCATION (3)

This course provides an introduction to the production of videotapes, films, filmstrips, slides and audiotapes pertaining to the world of work. Workshop procedures will be used to develop career education materials for use in a variety of employment settings. Prerequisite: 2001.607.

2001.611 ANALYSIS OF THE INDIVIDUAL (3)

Techniques available in studying the individual. Emphasizes data in the areas of vocational, educational and personal adjustment. Prerequisites: 2001.605 and 2001.411 (2001.605 may be taken concurrently)

2001.615 TECHNIQUES OF COUNSELING (3)

Counseling and therapy techniques used by counselors and other professional personnel working with children and adults. Prerequisite: 2001.430 or equivalent.

2001.617 FAMILY COUNSELING (3)

Course will focus on theoretical approaches and strategical methods of evaluating and counseling disturbed families. Prerequisites: 2001.430.

3001.619 COUNSELING THE ELDERLY (3)

Course will explore the medical and psychosocial aspects of aging with emphasis on problems common to the elderly. Various counseling techniques and their effectiveness with the elderly will be presented. The student will have counseling experience with an elderly person. Prerequisite: graduate standing.

2001.621 GROUP COUNSELING (3)

Course is designed to survey the theories, principles, and techniques of group counseling. Some additional topics to be covered are the role of the leader, problems of member selection, evaluation of group progress, and the ethics and training of group counselors. Prerequisite: 2001.430.

2001.623 GROUP COUNSELING PRACTICUM (3)

Designed to give the counseling major supervised practical experience in leading a counseling group. Prerequisites: 2001.621, consent of coordinator, and successful advancement to candidacy exam.

2001.627 USE OF TESTS IN COUNSELING (3)

Practice in the use and analysis of techniques for understanding the individual with emphasis upon standardized procedures used in the public schools. Prerequisite: 2001.411.

2001.630 COUNSELING THE ELEMENTARY SCHOOL CHILD (3)

Study of the dynamics of child behavior, techniques of assessing and counseling. Study of the family, school, and community structures and their effect on the child. Prerequisite: 2001.430.

2001.645 PRACTICUM IN COUNSELING PSYCHOLOGY (6)

Supervised experience in educational, vocational and personal counseling. Must be taken in two separate semesters (3 semester hours per semester.) Prerequisites: advancement to degree candidacy and consent of coordinator.

2001.651 PRACTICUM IN SCHOOL/CLINICAL PSYCHOLOGY (3)

Provides an opportunity to participate in diagnostic, remedial therapeutic planning as well as followup studies under supervision of practicing certified psychologists. Prerequisites: 2001.520, 2001.591, 201.592; advancement to candidacy

in school/clinical psychology track, and consent of coordinator.

2001.652 INTERNSHIP IN SCHOOL/CLINICAL PSYCHOLOGY (3) Each student must be a full-time student during the semester he/she enrolls in this course, typically the last semester of work. The student will be placed in an internship in a school or clinic, depending upon his/her specific orientation. This course may be repeated up to a total of three times with the written consent of the coordinator. Prerequisites: 2001.651. MA candidacy in school or clinical concentration.

2001.690 SEMINAR IN SCHOOL/CLINICAL PSYCHOLOGY (3) Consideration of current practices, trends and techniques in school or Clinical Psychology. Open only to MA candidates in the school clinical psychology areas.

2001.699 THESIS (3 or 6) Optional for students in Master of Arts for School Psychologists program. Required for students in Master of Arts in General Psychology.

Minimester only

2001.020 Survey of Services for the Handicapped.

SOCIOLOGY AND ANTHROPOLOGY

Chairperson: Irwin Goldberg

SOCIOLOGY COURSES (2208)

Upper Division—Undergraduate and Graduate

- 2208.009 WORK ORIENTATION COUNSELING (3) (Minimester)
- 2208.311 INDIVIDUAL AND SOCIETY (3)
- 2208.315 COMMUNICATIONS AND SOCIAL ORDER (3)
- 2208.322 SOCIOLOGY OF WAR AND PEACE (3)
- 2208.323 SOCIAL CHANGE (3)
- 2208.325 COLLECTIVE BEHAVIOR (3)
- 2208.327 URBAN SOCIOLOGY (3)
- 2208.329 DEMOGRAPHY (3)
- 2208.331 ORGANIZATIONS (3)
- 2208.332 SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS (3)
- 2208.333 POLITICAL SOCIOLOGY (3)
- 2208.334 INDUSTRIAL SOCIOLOGY (3)
- 2208.335 MEDICAL SOCIOLOGY (3)
- 2208.339 COMMUNITY ORGANIZATION (3)
- 2208.341 CLASS, STATUS AND POWER (3)
- 2208.343 MINORITY GROUPS (3)
- 2208.351 SOCIAL DEVIANCE (3)
- 2208.353 CRIMINOLOGY (3)
- 2208.354 INTRODUCTION TO CRIMINAL JUSTICE (3)
- 2208.355 JUVENILE DELINQUENCY (3)
- 2208.356 CORRECTIONS IN AMERICA (3)
- 2208.357 SOCIAL WELFARE (3)
- 2208.359 SOCIOLOGY OF AGING (3)
- 2208.360 SOCIAL GERONTOLOGY (3)
- 2208.367 SOCIOLOGY OF DEATH, DYING AND BEREAVEMENT (3)

- 2208.370- TOPICS IN SOCIOLOGY (3, 3, etc.)
 .379
 2208.381 SOCIOLOGICAL THEORY (3)
 2208.485 SEMINAR IN SOCIOLOGY (3)
 2208.391 RESEARCH METHODS (3)
 2208.470- SPECIAL TOPICS IN SOCIOLOGY (3)
 .479
 2208.491- PRACTICUM IN SOCIOLOGY I, II
 .492
 2208.495 INDEPENDENT RESEARCH (3)

ANTHROPOLOGY COURSES (2202)

Upper Division—Undergraduate and Graduate

- 2202.321 SEX ROLES IN CROSS-CULTURAL PERSPECTIVE (3)
 2202.346 WEALTH, POWER AND POLITICS IN CROSS-CULTURAL PERSPECTIVE (3)
 2202.364 RELIGION, MAGIC AND WITCHCRAFT (3)
 2202.365 NORTH AMERICAN INDIANS (3)
 2202.366 SOUTH AMERICAN INDIANS (3)
 2202.367 PEOPLES OF THE MIDDLE EAST (3)
 2202.369 TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3)
 2202.370- TOPICS IN ANTHROPOLOGY (3, 3, etc.)
 .379
 2202.381 ARCHAEOLOGICAL METHODS AND THEORY (3)
 2202.383 NORTH AMERICAN ARCHAEOLOGY (3)
 2202.385 ARCHAEOLOGY OF THE AMERICAN SOUTHWEST (3)
 2202.388 PEASANT CULTURES (3)
 2202.401 ANTHROPOLOGICAL THEORY (3)
 2202.470- TOPICS IN ANTHROPOLOGY: FIELD ARCHAEOLOGY (3,
 3, etc.)
 .479
 2202.491- PRACTICUM IN ANTHROPOLOGY I, II (3-6)
 .492
 2202.495 INDEPENDENT RESEARCH (3)



SPEECH AND MASS COMMUNICATION

Chairperson: Irene Shipman

MASS COMMUNICATION COURSES (0605)

Upper Division—Undergraduate and Graduate

- 0605.315 BUSINESS AND PROFESSIONAL COMMUNICATION (3)
- 0605.351 PUBLIC OPINION AND THE PRESS (3)
- 0605.353 PUBLICITY AND PUBLIC RELATIONS (3)
- 0605.356 FEATURE WRITING (3)
- 0605.358 NEWS EDITING AND COPY READING (3)
- 0605.363 HISTORY OF FILM (3)
- 0605.364 AESTHETICS OF THE FILM (3)
- 0605.367 TELEVISION WRITING (3)
- 0605.385 MASS MEDIA IN MODERN SOCIETY (3)
- 0605.421 FINANCIAL COMMUNICATIONS (3)
- 0605.451 PUBLIC RELATIONS FOR NON-PROFIT ORGANIZATIONS (3)
- 0605.453 ADVANCED PUBLICITY AND PUBLIC RELATIONS (3)
- 0605.460-469 PRACTICUM IN MASS COMMUNICATIONS (1-6)
- 0605.475 FILM WORKSHOP (3)
- 0605.485 NEWSPAPER IN EDUCATION (3)
- 0605.491 INDEPENDENT STUDY IN FILM (1-6)
- 0605.493 INDEPENDENT STUDY IN RADIO (1-6)
- 0605.495 INDEPENDENT STUDY IN TELEVISION (1-6)
- 0605.496 INDEPENDENT STUDY IN JOURNALISM (1-6)
- 0605.497 INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6)

Graduate Division

0605.501 MEDIA WRITING (3) Extensive examination and survey of media communication strategies. Attention given to promotional writing, screen and broadcast writing, commercial writing and journalistic writing. Prerequisites: Undergraduate degree in mass communication or consent of graduate coordinator (to be taken within the first 9 semester hours of graduate study.)

0605.503 CRITICISM IN MASS MEDIA (3) The examination and criticism of film and television with the focus upon aesthetic, commercial and production values that affect these media. Prerequisite: 0605.201 or 0605.202 or 0605.363 or 0605.364 or equivalent.

0605.515 ADMINISTRATIVE & PROFESSIONAL COMMUNICOLOGY (3) The study of communication and practices and problems found within business structures and corporations. Study includes: the relationship between communication and management/employee effectiveness; business communication formats; and conflict management and resolution. Prerequisites: 0605.315 or equivalent.

0605.521 MASS MEDIA LAW & REGULATIONS (3) Legal limits on freedom of the press, Constitutional guarantees, libel, contempt, obscenity, privacy, ethical problems, the right to know. Origins and concepts of freedom of information and its evolution in constitutional law and judicial decisions; contemporary problems of censorship in publishing, broadcasting, and film.

0605.551 MEDIA AND POLITICS (3) The course will deal with relationships among those who make news and those who cover it. It will show both the adversary nature and the intimacy of the relationship between politics and media. Prerequisites: undergraduate degree.

0605.570-579 SPECIAL TOPICS IN MEDIA MANAGEMENT (3) Exploration of current topics in media management. Revolving content based upon student interest and current needs in the field. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. May be repeated for a maximum of six semester hours but student may not receive credit for the same medium twice. Prerequisites: varies with each topic.

0605.580 BROADCAST STATION MANAGEMENT (3) Intensive investigations into broadcast management, functions, advertising, network and labor relations, internal organizational structure and operational procedures. Students examine philosophies and theories of management, programming, audience research, budgeting and accounting principles, sales and regulatory functions. Prerequisites: 0605.201, 0605.261 or 0605.265 or equivalent.

0605.585 SEMINARS IN MASS COMMUNICATIONS: PRODUCTION ASPECTS OF PUBLIC RELATIONS (3) Advanced study of public relations and publicity techniques. Publicity writing and media placement; development of employee publications, newsletters, shareholder reports, trade magazine articles, and brochures; and development of a specific publicity program designed to achieve specific goals and solve specific problems for selected clients. Prerequisite: 0605.353 or equivalent.

0605.586 SEMINAR IN MEDIA PRODUCTION: TELEVISION (3) Exploration of the aesthetic and technical aspects of multi-camera television studio production. Areas of concentration include camera operation and techniques, lighting and audio for television, technical direction and producing and directing for television. Prerequisite: 0605.271.

0605.587 SEMINAR IN MEDIA PRODUCTION: NEWSPAPERS (3) Analytical survey and research into multiple aspects of newspaper production, its relations with other divisions of the newspaper organization and operation, covering weeklies, and dailies for local, medium-sized and metropolitan audiences. Includes the production technologies of traditional to the ultra modern and future newspaper plants. Prerequisite: 0605.501.

0506.595 DIRECTED READINGS IN MASS COMMUNICATION (3) Directed readings in selected areas of mass communication. Opportunity will be provided for a comprehensive coverage of a selected area to meet the individual needs of the student. Prerequisites: graduate standing and consent of graduate coordinator.

0605.601 MEDIA INTERRELATIONSHIPS (3) Examination of the interactions among the mass media with emphasis on the message-media systems utilized by individuals and organizations. Course will include a review of pertinent research literature.

0605.611 THEORIES IN MASS COMMUNICATION (3) Study of theories relating to the communicator, message, channel, audience, and effects components of mass communication. Application of theories to current issues in mass communication.

0605.699 THESIS (3 or 6) A carefully executed and accurate recording of a specific topic in mass communication. An acceptable research methodology must be utilized. Includes and outline of the proposed thesis submitted for approval to graduate advisor. Prerequisites: the student must be advanced to degree candidacy and have completed all of the required core courses.

GENERAL SPEECH COURSES (1506)

Upper Division—Undergraduate and graduate

- 1506.304 PERSUASION (3)
- 1506.320 READER'S THEATRE (3)
- 1506.395 INDEPENDENT STUDY IN ORAL INTERPRETATION (1-6)
- 1506.411 INDEPENDENT STUDY IN CHAMBER THEATRE (1-6)
- 1506.423 ADVANCED ORAL INTERPRETATION OF LITERATURE (3)
- 1506.432 THE COACHING AND MANAGEMENT OF FORENSICS (3)
- 1506.493 INDEPENDENT STUDY IN READERS' THEATRE (1-6)

PUBLIC ADDRESS COURSES (1598)

- 1598.403 CLASSICAL AND MODERN RHETORIC (3)
- 1598.405 AMERICAN PUBLIC ADDRESS (3)
- 1598.406 BRITISH PUBLIC ADDRESS (3)
- 1598.495 INDEPENDENT STUDY IN PUBLIC ADDRESS (1-6)

THEATRE ARTS

Chairperson: C. Richard Gillespie

THEATRE ARTS COURSES (1007)

Upper Division—Undergraduate and Graduate

- 1007.307 THEATRE ARTS FOR CHILDREN (3)
- 1007.321 ACTING III (3)
- 1007.331 PLAYDIRECTING I (3)
- 1007.355 STAGE LIGHTING (3)
- 1007.361 DESIGN FOR THE STAGE (3)
- 1007.371 THEATRE GAMES I (1)
- 1007.372 THEATRE GAMES II (1)
- 1007.401 THEATRE AS A PROFESSION (1)
- 1007.407 THEATRE ARTS FOR CHILDREN—ADVANCED (3)
- 1007.411 PROBLEMS IN ACTING OR DIRECTING I (1-3)
- 1007.412 PROBLEMS IN ACTING OR DIRECTING II (1-3)
- 1007.413 PROBLEMS IN ACTING OR DIRECTING III (1-3)
- 1007.421 PLAY DIRECTING II: THE CONTEMPORARY PLAY (3)
- 1007.431 DIRECTING THE PERIOD PLAY (3)
- 1007.441 COSTUME DESIGN (3)
- 1007.471 PRODUCING STORY THEATRE IN THE SCHOOLS (2)
- 1007.473 WORKSHOP IN STORY THEATRE (2)
- 1007.475 USING THEATRE GAMES TECHNIQUES IN THE SCHOOLS (2)
- 1007.477 WORKSHOP IN THEATRE GAMES TECHNIQUES (2)
- 1007.480 PROBLEMS IN DESIGN AND TECHNICAL THEATRE I (1-3)
- 1007.481 PROBLEMS IN DESIGN AND TECHNICAL THEATRE II (1-3)
- 1007.482 PROBLEMS IN DESIGN AND TECHNICAL THEATRE III (1-3)
- 1007.485 ADVANCED THEATRE WORKSHOP FOR SECONDARY SCHOOL TEACHERS (6)
- 1007.486 WORKSHOP IN THEATRE PRODUCTION FOR SECONDARY SCHOOL TEACHERS (6)
- 1007.487 PROFESSIONAL THEATRE SEMINAR (12)
- 1007.493-498 PROBLEMS IN THEATRE I, II, III, IV, V, VI (1-3)
- 1007.499 SPECIAL PROJECT IN THEATRE RESEARCH (3)

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Environmental. Entrance: Main Entrance. Department: Environmental.
- 84** **WATER BUILDING**
Water. Entrance: Main Entrance. Department: Water.
- 85** **AIR BUILDING**
Air. Entrance: Main Entrance. Department: Air.
- 86** **SOIL BUILDING**
Soil. Entrance: Main Entrance. Department: Soil.
- 87** **PLANT BUILDING**
Plant. Entrance: Main Entrance. Department: Plant.
- 88** **ANIMAL BUILDING**
Animal. Entrance: Main Entrance. Department: Animal.
- 89** **FOOD BUILDING**
Food. Entrance: Main Entrance. Department: Food.
- 90** **AGRICULTURE BUILDING**
Agriculture. Entrance: Main Entrance. Department: Agriculture.
- 91** **FOREST BUILDING**
Forest. Entrance: Main Entrance. Department: Forest.
- 92** **WILDLIFE BUILDING**
Wildlife. Entrance: Main Entrance. Department: Wildlife.
- 93** **ENVIRONMENTAL BUILDING**
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- 94** **WATER BUILDING**
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- 100** **AGRICULTURE BUILDING**
Agriculture. Entrance: Main Entrance. Department: Agriculture.

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